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TRANSCRIPT LEGEND

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-- "*" denotes a spelling based on phonetics, without reference available.

-- (inaudible)/ (unintelligible) signifies speaker failure, usually failure to use a microphone.

P A R T I C I P A N T S

Committee Members

Occupational Physicians with Experience in Treating
WTC Rescue and Recovery Workers:

Steven Markowitz, M.D.

Professor of Environmental Sciences and Director of
The Center for The Biology of Natural Systems at
Queens College, City University of New York, New York
City.

William Rom, M.D., M.P.H.

Professor of Medicine and Environmental Medicine, New
York University School of Medicine
Director, Division of Pulmonary and Critical Care
Medicine, School of Medicine, New York University,
New York City.

Occupational Physicians:

Robert Harrison, M.D., M.P.H.

Clinical Professor of Medicine, University of
California, San Francisco;Chief, Occupational Health Surveillance and
Evaluation Program, California Department of Public
Health, San Francisco.

Virginia Weaver, M.D., M.P.H.

Director, Occupational and Environmental Medicine
Residency, Bloomberg School of Public Health, Johns
Hopkins University, Baltimore.

Physician with Pulmonary Medicine Expertise:

Thomas K. Aldrich, M.D.

Professor of Medicine and Director of The Pulmonary
Training Program, Albert Einstein College of
Medicine, Yeshiva University, New York City.

Representatives of WTC Responders:

Stephen Cassidy
President, Uniformed Firefighters Association of
Greater New York, Local 94 I.A.F.F. AFL-CIO

Valerie Dabas
Human Resources Analyst, Patrolmen's Benevolent
Association of the City of New York, Inc., New York
City.

Guillermina Mejia, M.P.H
Certified Health Education Specialist, Principal
Program Coordinator, Safety and Health Department,
American Federation of State, County, and Municipal
Employees, District Council 37, New York City.

Representative of Certified-Eligible WTC Survivors:

Kimberly Flynn,
Co-Founder, Director, 9/11 Environmental Action

Catherine McVay Hughes
Vice Chairman, Community Board 1 World Trade Center
Redevelopment Committee, Lower Manhattan World Trade
Center Redevelopment, New York City.

Susan Sidel, J.D.
Resident of New York City and volunteer WTC
responder.

Industrial Hygienist:

John Dement, Ph.D.
Professor, Community and Family Medicine, Duke
University Medical School, Durham, N.C.

Toxicologist:

Julia Quint, Ph.D.
Research Scientist Supervisor II and Chief, Hazard
Evaluation System and Information Service (HESIS),
Occupational Health Branch, California Department of
Public Health (retired), Oakland.

1 Epidemiologist:

2 Elizabeth Ward, Ph.D.

3 National Vice-President for Intramural Research,
4 American Cancer Society, Atlanta. (Advisory Committee
5 Chair-Person)

6 Mental Health Professional:

7 Carol S. North, M.D. M.P.E.

8 Professor, Department of Psychiatry, University of
9 Texas Southwestern Medical Center, Dallas.

10 Environmental Health Specialists:

11 Glenn Talaska, Ph.D.

12 Certified Industrial Hygienist, Professor, Department
13 of Environmental Health, University of Cincinnati,
14 Cincinnati.

15 Leonardo Trasande, M.D., M.P.P.

16 Associate Professor in Pediatrics, Environmental
17 Medicine and Health Policy, New York University;
18 Associate Attending in Pediatrics, Bellevue Hospital
19 Center, New York City.

20
21
22 Designated Federal Official:

23 Paul J. Middendorf, Ph.D., CIH

24 Senior Scientist

25 CDC/NIOSH/Office of the Director

26 Cincinnati, Ohio
27
28
29

P R O C E E D I N G S

(8:36 a.m.)

COMMITTEE BUSINESS

DR. WARD: Okay, we're going to get started and call the meeting to order, starting with Paul doing the roll call.

DR. MIDDENDORF: If the members around the table would just state their name for the record, that would be great.

MS. HUGHES: Catherine McVay Hughes. Hello?
Catherine Hughes.

DR. ROM: Bill Rom.

DR. QUINT: Julia Quint.

MS. MEJIA: Guillermina Mejia.

MS. SIDEL: Susan Sidel.

DR. WARD: Elizabeth Ward.

DR. HARRISON: Bob Harrison.

DR. ALDRICH: Tom Aldrich.

DR. TALASKA: Glenn Talaska.

DR. NORTH: Carol North.

DR. MARKOWITZ: Steven Markowitz. Steven
Markowitz.

DR. MIDDENDORF: And then on the phone we have
anyone?

DR. DEMENT (via telephone): John Dement.

1 DR. MIDDENDORF: I heard John Dement. Did I hear
2 Virginia also?

3 DR. WEAVER (via telephone): Yes.

4 DR. MIDDENDORF: Okay. Thank you very much. Let
5 me also point out since we're in a different room
6 we do have different evacuation routes. The
7 easiest way to get out of here is to go through the
8 double center doors over here, to my left and in
9 the back of the room, you go straight through the
10 next set of glass doors and immediately turn to
11 your left, and the fire exit is marked on a door
12 down that hallway. In case we need to evacuate,
13 that's where we need to go.

14 DR. WARD: Okay, so we have a short time before we
15 start the public comments, and we'd like to ask
16 Dori Reissman to speak to us about the question
17 that was raised yesterday regarding the language in
18 the Zadroga Act.

19 DR. REISSMAN: Good morning, everyone. So I'm Dori
20 Reissman, I'm the medical director for the World
21 Trade Center Health Program. And what I wanted to
22 try and do for you was to clarify, I think, the
23 questions that I heard yesterday regarding whether
24 or not there are certain criteria that you need to
25 meet within this committee in order to make a

1 recommendation regarding cancer.

2 So what I wanted to clarify was that in the Zadroga
3 legislation, the following quote is: World Trade
4 Center-related health condition means a condition
5 that is an illness or health condition for which
6 exposure to airborne toxins, any other hazard or
7 any other adverse condition resulting from the
8 September 11th terrorist attacks, based on an
9 examination by a medical professional with
10 experience in treating or diagnosing the health
11 conditions included in the applicable list of the
12 World Trade Center-related health conditions, is
13 substantially likely -- this is the part that
14 really should catch your ear -- is substantially
15 likely to be a significant factor in aggravating,
16 contributing to or causing the illness or health
17 condition as determined.

18 Now what this means, that quote specifically refers
19 to the job of the clinician in the program to
20 individually assess somebody's exposure and disease
21 relationship. It is not your charge. Your
22 charge -- the only language actually in the statute
23 about your charge had to do with the
24 administrator's discretion to request input from
25 you, advice from you, as to whether to include

1 cancers or type of cancers in the list of covered
2 conditions.

3 Once that list is established, which we already do
4 have quite a number of conditions there, then the
5 clinician within the program can assess the
6 individual's exposure disease relationship for that
7 individual's determination. Okay?

8 What the administrator asked you to do, and charged
9 the committee very specifically, was to give him a
10 scientific basis for your recommendation. That
11 didn't restrict you to any definition of what the
12 scientific basis meant. So I wanted to be very
13 clear about that.

14 Yesterday I heard a variety of interpretations of
15 what that could be. Some of it is reasonable, I
16 think, was a word that you used. One of them was
17 more likely than not. Whatever it is that you
18 decide, you need to use those criteria along with
19 how you're scientifically arriving at your
20 recommendation. Does that answer the question?

21 DR. WARD: Are there any questions for Dori? Yes,
22 Glenn. John, you have a question as well?

23 DR. DEMENT: I didn't check but I (indiscernible).

24 DR. TALASKA: So we can take -- from what you
25 understand, then we can decide what level of

1 recommendation to make to the administrator about
2 the disorders that we're considering.

3 I just wanted to be absolutely clear. It's up to
4 the committee then to set the strength of
5 recommendation to the administrator as to what we
6 feel is the relationship between the exposure and
7 the disease then, right? And the condition?

8 DR. REISSMAN: Yes, you can comment on what you
9 believe the strength to be.

10 DR. TALASKA: Yeah.

11 DR. REISSMAN: And if you feel that there are
12 criteria that you'd like to see continued to be
13 used, you can make a statement about that as well.

14 DR. TALASKA: Gotcha, okay.

15 DR. REISSMAN: Do I need to repeat anything since
16 this microphone was not on? Or are we good? Okay,
17 thank you.

18 DR. WARD: Okay, so were there any questions from
19 the committee members joining us by phone?

20 DR. WEAVER: So, we couldn't hear that, or at least
21 I couldn't hear it.

22 DR. WARD: Okay, so we'll ask Dori to repeat that.

23 DR. MIDDENDORF: We don't have time.

24 DR. WARD: Well, we don't have time for the whole
25 thing but maybe she'll give us a quick summary.

1 DR. REISSMAN: I'm sorry about that for the people
2 on the phone, I thought it was on. The bottom line
3 was yesterday in the meeting there was a question
4 about a specific criterion for scientific
5 relationship between a health condition and an
6 exposure, and it was a specific quote of the health
7 condition or the exposure is substantially likely
8 to be a significant factor in aggravating,
9 contributing to or causing the illness or health
10 condition.

11 And what I was saying to the committee here was
12 that that is for an individual clinical assessment
13 of exposure disease relationships. That is not
14 your charge. Your charge is simply to look at
15 whether you think cancer or a type of cancer is
16 appropriate to add to the list whereby a clinician
17 can then apply that criteria of substantially
18 likelihood test, if you will, to that individual
19 clinical assessment. And the criteria that you can
20 use are up to you; it could be more likely than
21 not, it could be reasonable, it could be whatever
22 words you choose but the advice that you give to
23 the administrator needs to have a scientific basis
24 and rationale.

25 **PUBLIC COMMENTS**

1 DR. WARD: Well, I'll turn it over to Paul for the
2 public comment period.

3 DR. MIDDENDORF: Okay. Thank you. I want to point
4 out that each of our commenters is signed up on a
5 first-come first-serve basis, and each of them will
6 have up to five minutes to present.

7 I want to remind our commenters that it's often
8 surprising how quickly five minutes can go by when
9 you're talking about a subject of great importance
10 to you. So at four minutes I will let the
11 commenter know that they have one minute remaining
12 so they can make sure that they have the
13 opportunity to make the most important points and
14 make sure they get that across to the committee.
15 If they have not finished at five minutes, I will
16 have to rudely interrupt them and thank them for
17 their comments. I apologize up front to anyone to
18 whom that occurs but we must do that to be fair to
19 all of our commenters.

20 We do have several commenters who are on the phone,
21 and I just want to remind them that they should
22 keep their phone on mute until I call their name.
23 Then they should unmute and make their comments;
24 and again, I will give them a warning when there's
25 one minute left and let them know when their five

1 minutes is ended.

2 Also I want to point out to everyone that you do
3 have the option of submitting written comments to
4 the docket to this committee. The docket number is
5 248, and you can find the instructions on how to
6 get to the docket in the Federal Register Notice,
7 it's on our committee web page, it's also on the
8 NIOSH docket page.

9 Lastly, I want to remind our commenters about the
10 redaction policy for public comments. That policy
11 is also published in the Federal Register Notice;
12 it is on the committee web page and also the
13 registration in the back here, if you want to look
14 at that.

15 So, with that we will go to our first commenter who
16 is on the telephone, Jeffrey Stroehlein.

17 JEFFREY STROEHLEIN: Hello, I'm right here.

18 DR. MIDDENDORF: Okay, can you go ahead and start?

19 JEFFREY STROEHLEIN: Yes. I'm Jeff Stroehlein,
20 retired New York City fireman, May 9, 2011. On
21 September 11, 2001, the United States and the world
22 was struck with an incredible, terrible tragedy.
23 Two planes crashed into both towers of the World
24 Trade Center. The loss of life on that day was
25 incredible. It would affect the lives of many as

1 the world watched in horror.

2 I'm here to represent firefighters and first
3 responders with the after-effects of that day, the
4 cancer that has followed in the 9/11 path. On
5 March 16, 2011, my life was regular: go to work,
6 hustle the kids around, pay bills, enjoy family
7 life when time was available, as we both worked and
8 tried to mix our schedules so we could have one of
9 us with the kids and pass some length of times.

10 The problem was that for about ten to 14 days I was
11 having headaches. I'm pretty tolerant of pain and
12 not a guy who gets sick a lot. My wife had had
13 enough and on March 17, St. Patrick's Day, earlier
14 I was at the doctor's office. My wife then
15 convinced the doctor to send me for an MRI. She's
16 in the nursing field.

17 Later that day the doctor called and said he wanted
18 to see us. My wife knew that wasn't good news and
19 we headed right to North Shore Hospital.

20 The next day, March 18, 2011, I was in surgery
21 getting a brain biopsy. Our world would change as
22 I was diagnosed with large-mass brain lymphoma
23 (indiscernible) CNS lymphoma.

24 My head had been cut open and I had ten staples in
25 my head as I was medicated for pain. As I got my

1 senses back and was given terrible news of my
2 cancer diagnosis, I did not sit and cry and feel
3 sorry for myself. The first thing I told my wife
4 was I will not lose to cancer. Then for my three
5 children and my little girl who turned four the
6 next day on March 19th, I would not be there to
7 celebrate as I lay in the hospital bed. This was
8 just a start as we decided to transfer to Sloan-
9 Kettering Hospital.

10 It was in that time there was much to do in case
11 the worst would happen and I was to pass on. We
12 needed a healthcare proxy, a will and a power of
13 attorney. But when (indiscernible) support there
14 was absolutely no help from FDNY as far as what to
15 do. It felt like our world had just been turned
16 upside-down. I would not lose any of my spirit as
17 I would fight the fight. I would stay positive
18 through all my chemo treatments, and I have no
19 plans of anything different. The side effects have
20 been no bargain. As much as I have told you about
21 me, this isn't about me; it's about us, the first
22 responders, who are still being diagnosed with
23 cancer ten and a half years later. I am the voice
24 for all first responders.

25 FDNY doctor, Dr. Prezant, did a study the first

1 seven years after 9/11 and cancer was at 19-percent
2 higher rate in (indiscernible) responders than
3 those who weren't there. That's just firemen.

4 I was diagnosed in the ninth year after 9/11 and
5 still hear of first responders being diagnosed with
6 cancer every week. My stats and others are not
7 even in the 19-percent stat. The percentage is
8 higher than that and still growing. Although sad,
9 there will be more first responders diagnosed with
10 cancer.

11 All FDNY vehicles that responded to 9/11 were
12 loaded with dust and debris. They all went back to
13 their firehouses uncleaned. Now the firehouse was
14 contaminated. Where was a fireman's gear after his
15 day on the Pile? Uncleaned and back in the
16 firehouse.

17 Ten and a half years ago -- I'm sorry, all FDNY
18 members were ordered on the chart down to the pit
19 and clean-up. There were so many contaminants,
20 poisons in the air, two airplanes disappeared,
21 glass, computers, desks, jet fuel and even human
22 body parts were in the air that day for months and
23 who knows how long after. As my friend John Field
24 would say, for any of those toxins individually in
25 a bottle, and it would have a skull and crossbones,

1 with a do not inhale. These were many unknown
2 amount of toxins. In the early stages the city was
3 unprepared with little paper painting sheetrock
4 masks. Twenty minutes of breathing and moisture,
5 and the mask would be torn open over your mouth.
6 Later we were told the air was safe to breathe.
7 Why would you give out masks if the air was safe to
8 breathe? Many lung and breathing problems have
9 occurred. Many in first responders. How is cancer
10 not caused? Are the people who make this decision
11 blind? None of them were on the Pile, no
12 politicians were digging on the Pile.

13 Ten and a half years ago, FDNY, police officers and
14 all the first responders were getting pats on the
15 back and 'atta-boys as politicians praised them.
16 They couldn't do enough for them.

17 DR. MIDDENDORF: One minute, please.

18 JEFFREY STROEHLEIN: Now you can turn your back and
19 deny, deny, deny. Cancer cannot be caused from all
20 these toxins of 9/11? There is no doubt cancer was
21 in the air on 9/11. I speak for all first
22 responders but mostly FDNY as that's where I
23 worked. As more and more first responders die of
24 cancer every week, something must be done. I will
25 not be one of the first responders who loses his

1 fight with cancer. Thanks for all my support and
2 my wife, my family's, and to (indiscernible) 162,
3 many other firehouses and the FDNY and all my
4 friends. I'll be here fighting the fight. God
5 bless.

6 DR. MIDDENDORF: Thank you, Mr. Stroehlein.
7 Our next commenter is Jim Melius.

8 DR. JIM MELIUS: Mic working okay? I have a head
9 cold, my ears are plugged up so hard to tell.
10 Anyway, good morning everybody on the panel,
11 everybody here. I'd like to thank Dori who saved
12 me about three minutes by going over some of the
13 same territory and now I don't have to go into long
14 definitions as much.

15 What I'd like to comment on this morning is what
16 your task is here, and I think it's very important
17 to recognize it's not the usual review of a
18 carcinogen, what would be done by IARC or NTP or
19 some regulatory agency. Rather, you're being asked
20 to make a determination whether a medical condition
21 should be added to the list of World Trade Center
22 medical conditions.

23 That list is going to be used to determine whether
24 or not people in this program will be treated for
25 that medical condition, but only after a physician

1 determines that that patient has that condition,
2 the definition that -- criteria that Dr. Reissman
3 just spelled out, and that that condition for that
4 particular patient is World Trade Center-related.
5 And even after that physician makes that
6 determination, that will then be reviewed by
7 someone at NIOSH and following a, you know, some
8 sort of a standard pattern of criteria so
9 there's -- there will be consistency in that
10 certification process.

11 And this kind of setup was deliberately put in
12 place in the legislation, this sort of two-step
13 process: one, there would be a list of medical
14 conditions; secondly, there would then be an
15 application of a physician diagnosis determining
16 whether or not for that particular patient, their
17 condition was related to their World Trade Center
18 exposures.

19 Because, and I think it's sort of obvious that you
20 cannot expect a panel such as yours to make a
21 determination for every single person, every single
22 circumstances. This is a complicated situation,
23 you're going to be look at -- you covered much of
24 this yesterday that came up; it's a complex
25 exposure, many carcinogens in it, it's not very

1 well documented in terms of levels of exposure,
2 many different types of work that went on. There's
3 a high rate of respiratory and other illnesses that
4 don't really track with the exposure measurements
5 that were made, at least quantitatively. You have
6 a limited time of follow-up so a full determination
7 on what will be the disease experience for this
8 population will go on for many years, 20, 30 years.
9 However, you know, Congress didn't ask -- expect
10 you or the administrator to wait 20 or 30 years.
11 They actually asked for an annual review of whether
12 or not cancer was a World Trade Center-related
13 condition and a determination and a report to be
14 made on that by the administrator. And I think
15 it's -- as you look at this evidence and make your
16 scientific and medical evaluation of that evidence,
17 I think it's important to put that in that context.
18 You're making a determination on really whether or
19 not a condition'll be covered for medical treatment
20 in this program.

21 And I think as we heard yesterday, we'll probably
22 hear more tomorrow, that determination has
23 significant consequences for the people in the
24 program. We don't have a perfect healthcare system
25 and as all of us -- you know, and many of you

1 experience daily is that coverage is limited for
2 many people, and there's an economic and personal
3 hardship for people if this isn't covered. And
4 that that should be -- the context should be simply
5 is this -- should this be added? Should there be
6 coverage provided given the process that's in
7 place.

8 I think it's obvious you shouldn't -- you know,
9 you're not going to be adding a condition that it's
10 not possible for a physician to make that
11 determination based on the evidence or something,
12 so there's some rationale to it.

13 DR. MIDDENDORF: One minute.

14 DR. JIM MELIUS: I know I have one minute, yeah, to
15 go, but at the same time I think it's a much
16 different level of evidence than you would require
17 for a IARC carcinogen or whatever, and it's hard;
18 it's even hard for me, I know, thinking about this,
19 I think possible-probable, I can of certain types
20 of evidence. You know, and so forth that I think
21 you have to think about this and approach this
22 differently.

23 Finally just briefly I want to say one piece of
24 advice I think -- and I appreciate the public
25 comment period, I appreciate you adding more time.

1 I think we're hoping for next time to be able to
2 have some more convenient times for people coming
3 in. The committee that I chair we do -- we allow
4 people ten minutes, and we do that and, you know,
5 sometimes people go on long but it's not for people
6 like me 'cause I can probably try to tighten up
7 what I say and get it in five minutes, but for the
8 people that are affected by the program they
9 need -- they really do, many of them do need more
10 time to explain. They don't know what you're
11 looking for and it really does help them. And I'll
12 end there.

13 DR. MIDDENDORF: Thank you very much. Our next
14 commenter will be Michael Barasch.

15 MICHAEL BARASCH: Good morning everybody and thank
16 you for the opportunity to speak this morning, and
17 thank you for your time and volunteering on this
18 committee. I'm an attorney and I'm with the firm
19 of Barasch and McGarry. I'm proud to say that my
20 firm represented Jimmy Zadroga, and we currently
21 represent his little daughter and father. We've
22 represented thousands of rescue workers at the
23 first victim compensation fund in the subsequent
24 years after, and currently thousands who are now in
25 treatment and hoping to apply to the new victim

1 compensation fund.

2 I'm very familiar with the respiratory illnesses
3 sustained by the Ground Zero workers and for better
4 or worse I get calls every day from guys and women
5 afflicted with cancer.

6 This morning I have brought with me three of my
7 clients. They have asked me to speak on their
8 behalf. First, John, would you stand up, please?
9 John Colon. On September 11th John was 44 years
10 old, living in Staten Island and an active member
11 of the Ladder 103 in Brooklyn. He responded to the
12 attacks and worked over 300 hours on the Pile. His
13 boat from Staten Island that morning was one of the
14 first to arrive as the towers fell. His group of
15 firefighters dug out Captain Al Fuentez, who was
16 one of the few to survive the buildings' collapses.
17 Prior to September 11th John was very healthy and a
18 nonsmoker. He currently suffers from chronic
19 bronchitis, chronic cough and last September -- I'm
20 sorry, September of 2010, he was diagnosed with
21 non-Hodgkin's lymphoma.

22 He wants me to say that the cancer has taken an
23 enormous psychological toll on his wife, his 11-
24 and 13-year-old daughters, who have watched him
25 sick and go through chemo. He's most scared of

1 course of not knowing whether he'll be there to see
2 his daughters grow up.

3 He wants you to know that notwithstanding his
4 illness he's proud of his service and would do it
5 all over again.

6 Luis Acevedo. Luis? On September 11th, Luis was 47
7 years old and had retired three months beforehand.
8 He had worked for the FDNY Engine 23 in Midtown.
9 Selflessly he responded to the attacks before the
10 first building collapsed, and he worked hundreds of
11 hours at the Pile.

12 He's currently suffering severe reflux and leukemia
13 and being treated at Sloan-Kettering. Prior to
14 September 11th, he was very healthy and a
15 nonsmoker. He has a wife and two daughters, and he
16 wants you to know that he, too, would do it all
17 over again.

18 And Michael Behette. On September 11th, Michael was
19 43 years old and an active member of Ladder 172 in
20 Brooklyn. He responded to the attacks and worked
21 45 days on the Pile. Last year Michael was
22 diagnosed with lung cancer. Recently he was
23 devastated by the news that the cancer has spread
24 to his brain and his spine. He knows that the
25 chances of him being alive in five years are less

1 than two percent, and prior to September 11th, he
2 was a healthy individual and a nonsmoker.
3 Look, we all recognize that the risk of adding
4 cancers to the victim compensation fund and to the
5 treatment program are real. It will reduce the
6 money available for care, treatment and
7 compensation available to those who are suffering
8 from respiratory illnesses which are already
9 accepted as illnesses caused by the Trade Center
10 dust. On the other hand, to wait another five
11 years for indisputable proof of causal connection
12 means that many of the rescue workers in this room
13 or listening from their offices and homes, will not
14 live to see the benefit of what seems to be a
15 foregone and logical conclusion. With all due
16 respect, I'd like to suggest that this committee
17 accept what some of the experts, such as
18 Dr. Landrigan and Prezant have opined. To wit,
19 there is a high degree of certain that toxic dust
20 exposure has and/or will cause cancer.

21 DR. MIDDENDORF: One minute, please.

22 MICHAEL BARASCH: I submit that at this time, at
23 least for the rescue workers who were on the Pile,
24 you should recommend immediately that the
25 respiratory cancers, esophageal cancer, the blood

1 cancers, thyroid and prostate cancers be recognized
2 as being caused by the toxic World Trade Center
3 exposures. Thank you.

4 DR. MIDDENDORF: Thank you very much. Ask our next
5 commenter to come up, David Howley.

6 DAVID HOWLEY: That's an act to follow, good lord.
7 Okay. Well, I'm going to be, I guess, the first
8 police officer; I mean, everybody else was a
9 fireman. Good morning, everybody. My name is
10 David Howley, and I'm retired from the New York
11 City Police Department.

12 A lot of this stuff is covered so I'm not going to
13 try to make you hear all the same things, you know,
14 two and three and four times, however many times
15 people speak today. So I'm going to try to make
16 this personal for you guys at your level, what you
17 guys have to think about.

18 So the first thing is just real briefly about me.

19 In 2006 after retiring, I was diagnosed with
20 squamous cell, head and neck cancer. From that
21 point on, first oncologist told me basically I was
22 dead and didn't know enough to die yet, and that's
23 a true statement and you can look at my wife's face
24 back there and I'm sure it's registering horror.

25 The next doctor wanted to, because they didn't know

1 where the primary was, because squamous cell only
2 shows up with PET scans, they didn't know where the
3 primary was; they couldn't find it. So next doctor
4 wanted to cut me up into little pieces to try to
5 find, and do biopsies everywhere, to try to find
6 where this thing was 'cause it didn't show up.
7 I've had two strokes and I was overdosed on
8 chemotherapy once and almost died from that, too.
9 Basically my doctors now call me the miracle
10 patient 'cause none of them thought I'd be here.
11 So, okay, well, I am and we're moving forward and
12 we go from here. So let's put this in your guys'
13 ballpark. You guys have been given a
14 responsibility that should never have been put in
15 your doorstep in the first place. There's no
16 question about that. Cancer should have been in
17 the original law. Congress people were told it
18 should have been put in the original law, and they
19 refused to do it. Why? God only knows about that
20 one. But so here you are.
21 So you have to make the determination not only
22 about the facts that are in front of you, which as
23 the good lawyer said, you can't do with a hundred
24 percent certainty because this kind of stuff, and a
25 lot of you I know are doctors and researchers, and

1 you're used to dealing with long studies and drawn
2 out, clean sterile environments, you guys are used
3 to working with them. Many of you are that I know.
4 You don't have that here. You're not going to have
5 that here; it's never going to happen, because the
6 disaster itself was at such magnitude that there's
7 nothing for you folks to compare it to. This is
8 all brand new. Nothing of this size, scope, amount
9 of concrete, glass, steel, toxins, dust, office
10 equipment and everything else has never -- then
11 burned at 3,000 degrees, has ever happened before
12 in the history of mankind. So you can't go back
13 and go, well, this happened in 1924. It's
14 relatively close, let's compare and see what
15 happened to those people. It was -- there's
16 nothing to compare it to.

17 Our grandchildren, if we're lucky enough to have
18 grandchildren, will wind up doing theses (sic) on
19 their own when they're going to medical school, and
20 try to put all this together for us. And they may
21 still not have 100-percent concrete answer. It's
22 that, it's that bizarre what happened that day.
23 So you have to look at it as well, what's the best
24 possible evidence that you have? What seems to be
25 what's going to happen? So you really, the only

1 wrong decision, as far as I can tell, I think it's
2 pretty much a ground ball, is to go -- is to not do
3 this. Because by not doing it, you're going to be
4 slowing down the research or stopping the research;
5 you're going to be stopping people from getting the
6 treatments that they deserve, you're going to be
7 stopping the families from getting the support that
8 they needed. And you also quite frankly have to be
9 able to look in the mirror for yourselves and go,
10 you know what, did I maybe not save somebody's life
11 today or this person down the road and maybe today,
12 maybe tomorrow may have died because they weren't
13 able to get the treatment that they need.

14 I was very lucky, I had a great support system that
15 I was able to get it, and I still went through
16 hell. But I'm here. Other people might not be
17 that lucky.

18 And last but not least, so I don't take up too much
19 of your time, you guys also unfortunately have to
20 look down the road. What if this hap -- we're
21 basically fighting a world war. We're in the
22 middle of a world war. We don't call it that but,
23 being politically correct as we are this day we
24 probably wouldn't, but if this was the 1940s, this
25 would be considered a world war. And we're still

1 there today. And you guys have to look and go, if
2 this happens again, are those same first
3 responders, guys like me, guys like these three
4 firemen, guys like the fireman on the phone, are we
5 going to go down there? Are the guys and girls
6 that are out there on the street today gonna go
7 down there and do the same thing? Ninety-
8 eight percent of the people that were below the
9 floors where the planes struck got out of that
10 building alive. Will that happen again? It rests
11 on your shoulders. Thank you very much and God
12 bless you.

13 DR. MIDDENDORF: Thank you very much, Mr. Howley.
14 Our next commenter is Michael Winter.

15 MICHAEL WINTER: Good morning. This is extremely
16 difficult for me so I apologize in advance. I've
17 been affected by post traumatic stress disorder due
18 to September 11th.

19 On September 11th I was in charge of the operations
20 control center at United Airlines. I was in the
21 job to manage the people who were legally
22 responsible, along with the captain, for every
23 flight operated by that airline and every airline
24 in this country. Every flight operated by U.S.
25 airlines is required to have a licensed aircraft

1 dispatcher managing the flight on the ground along
2 with the captain in the air. The reason dispatcher
3 is highly trained and licensed is they have to know
4 the same thing as the airline captain does.

5 Dispatchers take their job very seriously. I took
6 the job of managing aircraft dispatchers for United
7 Airlines very seriously.

8 Like most people I remember seeing the pictures of
9 the hole in the side of the first twin tower hit.

10 I knew it was not a small aircraft as they had
11 reported on my commute to work on the radio.

12 I can still feel the impact of the second tower on
13 my body as I stood and watched it on the overhead
14 screen in the ops control center. There have been
15 many times I wish I would have died on that day.

16 It would have stopped the pain, the feeling of
17 responsibility, the never-ending questioning of
18 what we could have done differently, what could we
19 have said differently for the flight attendant that
20 called from the back of Flight 93, telling us that
21 the aircraft was in control of hijackers. The
22 emotional numbness I feel while trying to be a good
23 husband and father. The difficulty being with
24 other people, the total loss of interest in doing
25 things I used to enjoy. The nightmares and

1 sleepless nights are too numerous to count anymore.
2 Fortunately a small piece of me still wants to live
3 and make a difference in the world. My therapists
4 say it is possible for people with PTSD to recover
5 to a point where they can function in the world but
6 not without consistent treatment. I've had to pay
7 for the treatment thus far out of my own pocket, as
8 my wife's insurance plan does not cover mental
9 health for family members.

10 I just want to read a couple excerpts from
11 summaries written by my therapist and by the MD
12 that diagnosed me with post traumatic stress
13 disorder. Michael Winter first presented with his
14 wife, Denise, for family therapy on
15 1/15/2009; primarily presenting issue was
16 children's symptoms. Secondary issues reported by
17 Denise Winter were multiple family problems related
18 to changes in Michael's behavior that began in 2001
19 and continue to present. Michael's behavior
20 changes that affected work relationships and
21 lifestyle.

22 Michael had moved upward in his career until he
23 reached a career path in April 2001, when he became
24 the head of the flight dispatcher organization for
25 United Airlines, overseeing approximately 300

1 employees. As a flight dispatch manager, Michael
2 was present on the flight control floor and
3 directly supervised the flight dispatcher who
4 monitored two of the flights that were crashed by
5 the terrorists on September 11th. During the hours
6 that followed the first plane crash, Michael was at
7 the center of United Airlines' response to the
8 terrorist take-over of aircrafts. He encouraged
9 the supervisors to get flights safely landed,
10 helped draft a message to the flight crews in the
11 air, warning of possible terrorist attacks.
12 By the way, the message from Ed Ballinger to Flight
13 23 leaving JFK with six terrorists on the airplane
14 was stopped before it got off the ground. Our
15 messages were sent prior to anybody in the air
16 traffic control system, and we stopped that flight
17 from taking off. Michael was at his post helping
18 to bring home the surviving planes and doing damage
19 control for the company hit hard by terrorist
20 attacks.
21 He continued to work for United Airlines, following
22 9/11 and initially responsible for reorganization
23 and down-sizing directly related to 9/11.
24 Gradually he was demoted until he resigned after
25 sick leave was exhausted. Denise Winter reported

1 that the marriage had been very satisfying and life
2 had been good up until then but constant changes in
3 mood and the ability to deal without anyone locking
4 himself in a room for days.

5 Michael's presenting symptoms include irritability,
6 physically withdrawing from the outside world, lack
7 of joy in daily living, panic attacks, moodiness,
8 constant vigilance, emotionally withdrawing from
9 his wife and children, avoidance of discussions
10 involving 9/11, emotional numbing, memories
11 intrusive sleep.

12 One other just comment -- well, actually this is
13 the end of her letter. It says in my opinion that
14 Michael Winter continues to suffer PTSD symptoms
15 that are directly related to the events of his
16 professional position responsibilities with the
17 aircraft that were hijacked on that day. Michael
18 was indeed a first responder on that date and a
19 professional who stayed on duty to begin the
20 remaining, the remaining airplanes home safely.

21 DR. MIDDENDORF: One minute, please.

22 MICHAEL WINTER: One minute? My final comment will
23 be --

24 MATTHEW MCCAULEY: Mr. Moderator, I have -- I'm up
25 next; I cede two minutes of my time to Mr. Winter.

1 DR. MIDDENDORF: No, you cannot cede.

2 MATTHEW MCCAULEY: Okay.

3 MICHAEL WINTER: Thank you. People on the ground
4 that had not been directly involved in the
5 terrorist attacks on that day are covered for PTSD,
6 and my request is I be covered or just treated as a
7 first responder. All I'm asking for is health
8 benefits to get me back to living at least a
9 somewhat normal life.

10 I'm lucky to be here. A lot of people as you know,
11 don't make it through severe PTSD; they end up
12 killing themselves because the pain is just too
13 great. I know that a lot of people, you know,
14 certainly the people that are there have been hurt,
15 and I understand that, but I'm just asking for some
16 compensation ben -- just for benefits and health
17 benefits, not compensation.

18 DR. MIDDENDORF: Thank you very much. I do want to
19 point out to our commenters that if there are
20 additional -- there is additional information that
21 you're able to present here while you're giving
22 your public testimony, you do have the option of
23 submitting to the docket, and any of the comments
24 that come into the docket are shared with each of
25 the members of the committee. So that's another

1 way that you can get your information to the
2 committee. Our next commenter is Matthew McCauley.

3 MATTHEW MCCAULEY: Good morning, ladies and
4 gentlemen. Thank you for permitting me to address
5 this panel. My name is Matthew McCauley. I'm an
6 attorney with the law firm of Parker and Waichman,
7 and we represent numerous health -- numerous first
8 responders, many of whom suffer from cancer.
9 Wasn't always a lawyer and I won't always be a
10 lawyer. I started out as a New York City police
11 officer and I will always be known as being retired
12 from the job. I've also been a paramedic for over
13 20 years, and it's what drives me to see through my
14 clients' eyes because I was a first responder at
15 the 1993 and at 2001 terrorist attacks. I'm one of
16 the few attorneys you can say that they've seen the
17 same things through their clients' eyes, as many of
18 them have served beside me and also beyond me,
19 beyond my days at the World Trade Center.

20 I come here to ask you to support the suggestion
21 that at least certain cancers make it into the fund
22 and for healthcare benefits. As you heard over the
23 last two days, a lot of statistical issues that are
24 there, trying to evaluate whether or not there have
25 been reported cases or non-reported cases. Three

1 people -- two people you heard from are out of
2 state: Richard Dambakly in North Carolina and
3 Arthur Noonan who came up from Chicago.

4 There are many others like them that I also
5 represent, who have cancer. They're not counted
6 because they came in from out of state, whether
7 they be a member of a USAR team in Florida or
8 Chicago or if they came in from Pennsylvania. If
9 they fell outside the bell curve when the first
10 reports came in and they're not part of organized
11 labor, whether it be NYPD, FDNY or their brother
12 and sister labor unions, many of them have fallen
13 through the cracks because they went home. They
14 came here to New York, they did their job, they
15 supported everybody, and now they have cancer.
16 They went on about their lives, they continue to go
17 on about their lives, but many of them need the
18 healthcare benefits and the compensation that goes
19 along with including this.

20 They should not be forgotten and I am here today
21 because I represent many of them, some from
22 California, some from Florida, some from Chicago.
23 They were not part of the people who were accounted
24 for. Richard Dambakly, who testified yesterday, is
25 not in the World Trade Center (unintelligible) fund

1 because he has cancer. He was not counted.
2 He tried to contact them a few years back, they
3 didn't take his information because he wasn't
4 having any qualifying injury. Arthur Noonan is the
5 same way. Steven Moses in Florida, USAR team, same
6 way. These are gentlemen who didn't come in with
7 thousands, they came in one out of seven, one out
8 of ten, two out of eight. Small numbers of people
9 who came in from fire departments, police
10 departments and first responders from around the
11 country to help us. They're not part of thousands
12 of people. You know, they came in in small groups
13 and yet their small groups have been affected, and
14 they're not spoken for.
15 With that extent, I work in a world of data and
16 Daubert and all these other standards when it comes
17 to epidemiology, and epidemiology is a lot of
18 things, but for epidemiology, as you all know, you
19 need to have good studies, good bases, good ideas
20 that go behind them. The problem was that there's
21 a lot of different conflicts that are there. And
22 we have issues as to whether or not we'll ever have
23 a substantial amount of epidemiology. But the one
24 thing that I think the researchers on this board
25 know is that absence of evidence is not evidence of

1 absence. And it should go forward. There's enough
2 support out there for it, there's enough
3 information out there for it.

4 We could never conduct a study with all of these
5 toxins put together. There would be no reason to
6 and a study to mash everything together as far as
7 one that has never been done and likely can never
8 be done in that setting.

9 Please look to the people who were not accounted
10 for. Similar to the way adverse events are looked
11 at from drug companies, it's those that are not
12 counted that are the most important.

13 Underreporting is pervasive here.

14 I've also come in support of Michael Winter.

15 Michael is an outlier. Michael's here looking for
16 healthcare benefits. He is somebody who absolutely
17 was involved in protecting the skies over
18 everybody's head. He was absolutely involved in
19 the actions that took place at the World Trade
20 Center, at the Pentagon and at Shanksville. He
21 should not be denied medical benefits because he
22 wasn't physically within the confines.

23 DR. MIDDENDORF: One minute.

24 MATTHEW MCCAULEY: Okay. He was not --

25 DR. MIDDENDORF: Also please try to speak in the

1 microphone.

2 MATTHEW MCCAULEY: He was not physically within the
3 confines of what is defined there. He was there.
4 He was at every single one of those locations, and
5 I think that every fireman, every police officer
6 who was on the ground the moments after it happened
7 will tell you that they looked up 'cause they were
8 afraid. He was one of the people protecting them
9 from above. He was one of the people clearing the
10 air space. Do not leave him out. He should not be
11 left out because a spectator -- sorry, a bystander
12 who was in the Millennium Hotel, who was looking
13 out the window and unfortunately may have PTSD,
14 that person's qualified, that person is qualified.
15 They were evacuated from the hotel, they left the
16 scene. I feel sorry for that person, I really do,
17 but Michael Winter is somebody who was involved in
18 this. He does not fall under the guidelines of an
19 exact first responder, that we all consider a first
20 responder; he was there.

21 I just ask that you please include cancer into the
22 qualified injuries and that there be some sort of
23 mechanism to include the exceptional special
24 circumstances like people like Michael Winter.
25 Thank you very much.

1 DR. MIDDENDORF: Thank you, Mr. McCauley. Our next
2 commenter is, excuse me, on the telephone, John
3 Fassari. Are you there, Mr. Fassari?

4 JOHN FASSARI: Yes.

5 DR. MIDDENDORF: Okay. Go ahead and please begin.

6 JOHN FASSARI: Good morning. Thank you for taking
7 my call. My name is John Fassari. I am a retired
8 lieutenant from the New York City Fire Department.
9 Operated at 9/11 for months, and I have to tell you
10 that I have non-Hodgkin's lymphoma, a terminal
11 cancer, something rare but also something that many
12 of my fellow coworkers have gotten since operating
13 at 9/11. And I just think that you need to hear
14 that all of us, and many of my coworkers and
15 friends that are not here today to make a telephone
16 call or respond to this hearing because of the
17 sicknesses and cancer that they had gotten and are
18 no longer here.

19 I myself being somewhat lucky and still being here,
20 I'm just only waiting now for the axe to drop. But
21 I just had to respond to this and, you know, let
22 anyone that is going to make this decision about
23 cancer that I just can't tell you how many of my
24 coworkers, friends and first responders have gotten
25 sick.

1 Now, not only is it, you know, cancer and post
2 traumatic stress and all those other disorders that
3 go with being sick, you know, it's a terrible
4 thing, and I hope they reconsider and add cancers
5 to the Zadroga Bill.

6 I know many families are looking for help and need
7 help, and I hope in the future, and I hope that
8 this conference will be strong enough to make the
9 decision to help these families in need. And
10 again, especially for the families that have, you
11 know, lost their first responders, their dads,
12 their moms, anybody else that operated there and is
13 no longer there today.

14 New York City Fire Department chief medical
15 officers believe that cancer is a big part of these
16 guys being sick and I just wanted to let you know
17 that, you know, we're sick and we're hanging in
18 there. Thank you.

19 DR. MIDDENDORF: Thank you very much, Mr. Fassari.
20 Our next commenter is Frank Tramontano.

21 FRANK TRAMONTANO: Good morning. My name is Frank
22 Tramontano; I'm the research director for the New
23 York City Patrolmen's Benevolence Association. Now
24 more than ten years after the attack on the World
25 Trade Center, this committee is searching for

1 medical and scientific evidence to determine if
2 cancer should be added as a covered illness for
3 treatment under the James Zadroga Act.

4 There has only been one cancer study published to
5 date, and other than some of the testimony heard
6 here yesterday, there are no studies that analyzed
7 the effect of the World Trade Center dust that was
8 inhaled and ingested and its connection to cancers.
9 The testimony yesterday also revealed that there
10 were no samples taken of the air for the first four
11 days after the attack. So this committee has to
12 decide on a cancer petition with less than perfect
13 information. There should have been more cancer
14 studies and those that are about to come out, like
15 the one Dr. Landrigan testified to this committee
16 yesterday, has serious limitations.

17 It is mind boggling to me that the City of New York
18 has not done more with the information they had
19 regarding New York City police officers. On
20 March 30, 2007, Caswell Holloway, the then chief of
21 staff of New York City deputy mayor, Edward Skyler,
22 testified, and I quote, that the New York City
23 Police Department did a particularly thorough job
24 identifying who from their ranks responded to 9/11
25 or took part in the recovery and cleanup at the

1 World Trade Center site.

2 Until yesterday, after days of getting beat up on
3 this issue in the press, the City has finally
4 agreed to release the data to Mt. Sinai. This is
5 after denying them the information months earlier.
6 If the City wanted to, we could have applied for
7 research funds from NIOSH and hired staff and
8 conducted an NYPD cancer study of its own. It is
9 quite surprising this was not done, knowing that
10 the City is constantly searching for ways to get
11 more federal money.

12 The City has also failed to release its department
13 of health cancer registry report. The report is
14 not only late but it will also be severely limited
15 since it has been closed to new registrants since
16 2004, and contains, according to our sources, only
17 approximately 4,000 police officers. There were
18 six to seven times that number of police officers
19 who responded to the 9/11 rescue and recovery
20 effort and were exposed to the horrific
21 environmental conditions in and around Ground Zero.
22 Sadly the City of New York is not alone in its
23 failures toward the 9/11 responders. The cancer
24 study being released by -- shortly by Mt. Sinai
25 Medical Center, which was briefly summarized

1 yesterday by Dr. Landrigan, includes only those
2 responders who are registered with the World Trade
3 Center medical monitoring program, a program that
4 doesn't treat cancer. We know of at least 70
5 police officers with cancer who should be in that
6 study but are not.

7 As mentioned, there has been one study released on
8 this issue. The past fall, the fire department
9 published a study entitled, "Early Assessment of
10 Cancer Outcomes in New York City Firefighters after
11 the 9/11 Attacks." While that study demonstrated
12 an increase in cancer rates among firefighter first
13 responders, the study included an adjustment in the
14 data to delay the date of diagnosis by two years.
15 When taking this adjustment into account, the study
16 would cover a period up until 2006, resulting in a
17 period of time after the study being longer than
18 the period actually covered by the study. Frankly
19 I don't understand why this committee does not have
20 an updated analysis from the fire department. It
21 seems to me it would qualify as medical evidence.
22 As you know, the report did show a 32-percent
23 higher cancer incident among exposed firefighters
24 when compared to non-exposed firefighters before
25 the adjustment.

1 DR. MIDDENDORF: One minute.

2 FRANK TRAMONTANO: The study also demonstrated an
3 increase in incident of cancer for a later period
4 after 9/11 when compared to a period immediately
5 after the attacks, a trend that is likely to
6 continue.

7 These are significant facts and along with some of
8 the presentations yesterday represent scientific
9 evidence that should be sufficient for this
10 committee to support the addition of cancer as a
11 covered illness. It clearly represents a higher
12 evidence threshold than some other illnesses
13 covered under the Zadroga Act.

14 But there is more evidence out there. Through the
15 PBA's own cancer registry, we have recorded four
16 nasal cancers when the annual rate of nasal cancer
17 in New York State is .1 for every 100,000. There
18 are approximately 30,000 police officers who filed
19 a notice of participation with New York State,
20 saying they worked at Ground Zero. The police
21 pension fund has seen a rate of increase of more
22 than three times the cancer accident disability
23 applications since 2006. There would be more
24 evidence to the City if others had done a better
25 effort, but unfortunately they failed to do so.

1 Please do not make the responders with cancer
2 suffer any more because of the lack of effort.
3 Finally I believe this committee must consider the
4 financial implications of not recommending cancer.
5 If you are like me and others in this room, and
6 believe that there is just a matter of time before
7 the scientific evidence unequivocally proves the
8 cancer link for the sake of the financial
9 implications or for the families of these
10 responders, I beg you to recommend adding cancer as
11 a covered illness.

12 In the end the treatment for this disease bankrupts
13 families, even those with good medical plans.
14 There are yearly medical spending caps and lifetime
15 medical spending caps that for the responders --
16 for those responders that are lucky to survive with
17 this disease wind up depleting their family assets.
18 How can we in good conscience --

19 DR. MIDDENDORF: Your time is up.

20 FRANK TRAMONTANO: -- hesitate another day to add
21 cancer to this list of illnesses when these
22 selfless individuals do not hesitate a moment to
23 the call of their duty. Thank you.

24 DR. MIDDENDORF: Thank you. Our next commenter is
25 Keith LeBow.

1 KEITH LEBOW: Good morning ladies and gentlemen of
2 the panel. My name is Keith LeBow. I am a sick
3 World Trade Center first responder but I'm not here
4 about what's wrong with me today. I'm here to
5 address the issue at hand, which is to add cancer
6 to this act that we fought for. Excuse me.
7 Everyone knows and understands now that the dust of
8 Ground Zero was toxic and contained many, many
9 cancer-causing materials. Among them asbestos,
10 hexavalent chromium 6, mercury and cadmium. These
11 are not only cancer-causing but mutagenic as well,
12 which means the cancer will be passed to future
13 generations to come, mutating or changing as each
14 new generation is born. Studies have been done,
15 published but yet the fact of the matter is they
16 are not being released to the people who need them
17 the most.
18 The doctors who are working to figure out ways not
19 to just deal with that, with what is wrong, but to
20 heal us in the best ways that they can. Excuse me.
21 Studies are fine for gathering data but to ignore
22 the problem means that all the data in the world
23 that you collect is worthless unless put to a good
24 use. Now what I have right here in front of me is
25 just a sample of what I was able to find online

1 about this particular issue. To me that's great.
2 It means to use this data means to save lives.
3 That's the best thing in the world. We just need
4 to -- you know, we just need better medical
5 treatment.

6 What will it take to accept the fact that we were
7 subjected to a very toxic environment with little
8 or no protection at all? More deaths from various
9 cancers? Cancers that normally take 20 to 30 years
10 to manifest themselves are wiping out and have
11 taken many people's lives in less than ten years.
12 Many people need this to be added, especially
13 people like construction workers who, unless they
14 work, do not get paid, do not get benefits and have
15 no way of paying for any of their treatments. To
16 deny them this coverage means that once they are
17 found to have cancer from the dust, must continue
18 to work even though they are in dire need of this
19 treatment; otherwise they must face mounting
20 medical debt because they have no coverage. You
21 don't work, you don't get paid, you are no longer
22 covered. To ignore the obvious is to condemn many
23 to horrible deaths.

24 Just imagine one day you wake up to find out
25 yourself, your loved one or someone close to you

1 has gotten cancer from breathing in toxic fumes at
2 work. The doctors, as well as many others, know
3 what caused them to develop cancer, but you were
4 told that the studies must be done than to hear you
5 were denied any kind of help necessary to help
6 them.

7 You would want to move heaven and earth to do
8 everything you could to save them, not only to have
9 your pleas fall on deaf ears but just be denied
10 completely. That is what is being done to us now.
11 So please, for the sake of sick and dying World
12 Trade Center responders, victims, survivors and
13 their families, please accept cancer as being a
14 part of the Zadroga Act so more do not pass on from
15 it. Thank you very much for your time.

16 DR. MIDDENDORF: Thank you very much, Mr. LeBow.
17 Our next commenter will be Tracy Conte.

18 TRACY CONTE: Good morning. My name is Tracy Conte
19 and I am the daughter of retired FDNY Lieutenant
20 Harry Wanamaker. My father worked at the Trade
21 Center site for 16 consecutive days, sleeping
22 inside of a body bag for a few hours at a time to
23 escape the choking dust. He passed away on
24 July 20, 2010, of the most aggressive case of
25 metastasized prostate cancer that the oncologists

1 and hematologists who treated him had ever seen in
2 the history of their practice.

3 My father, Lieutenant Wanamaker, developed the
4 Trade Center cough right away and the lung issues.
5 But there was no signs of cancer.

6 He remained active -- he retired in 2002 but
7 remained healthy and active throughout his
8 retirement, participating in his community,
9 bringing a Memorial Day parade to his town after a
10 30-year hiatus, revitalizing the membership of his
11 local American Legion, taking care of his
12 grandchildren, taking care of his elderly
13 neighbors.

14 On Memorial Day 2010, my father started
15 experiencing back pain and difficulty breathing,
16 and felt weak. By early July he was diagnosed with
17 prostate cancer. Just five weeks after his
18 symptoms appeared, he had lost 30 pounds, could
19 barely walk and barely breathe. He entered the
20 hospital on July 8, 2010, and what happened over
21 the next 12 days was mind-numbing, like a freight
22 train running out of control.

23 His body stopped manufacturing blood, he received
24 platelets and blood transfusion and still his blood
25 oxygen level was dropping. The doctors could not

1 figure out what to make of his advanced breathing
2 difficulties and how his oxygen levels were
3 dropping. They were scratching their heads, an
4 entire team of doctors, all specialties.

5 A bone marrow biopsy uncovered that his marrow had
6 been replaced by bad cells. The sample extracted
7 during the biopsy was dust. His PSA score nearly
8 doubled every 24 hours. Five days before he died
9 it was 300. Four days before he died it was over
10 500. The day he died it was over 3,000 which was
11 the highest score the doctors had ever seen.

12 Doctor after doctor told us that he was one of the
13 sickest, if not the sickest, patient they had ever
14 encountered in their careers. Every major system
15 failed at the same time: lung, bone marrow,
16 kidney, renal, heart. According to the doctors it
17 was as though the cancer had bloomed throughout his
18 body.

19 He had no family history, was the most aggressive
20 case and was -- he was the sickest person that the
21 doctors had treated and the doctors were scratching
22 their heads. They had never seen anything like it.
23 It was like a force had taken over. The greatest
24 human risk of exposure to the environment comes
25 through our lungs, and if there is a shadow of

1 question and an ounce of inconclusive evidence,
2 then the commission needs to do the right thing.
3 Cancer needs to be included in this bill, and I
4 don't know why any compassionate person would
5 choose not to. My family suffered the premature
6 and sudden loss of a loving husband, father,
7 grandfather, a man who always gave to his family,
8 his community, the FDNY, the citizens, not only of
9 New York City but anywhere he went, and his gift to
10 all of you was that he risked his life every day to
11 save yours, not just when he was at work but every
12 living day. And just as every first responder
13 does.

14 To exclude an entire group of people, people who
15 showed up to help, based on a technicality that
16 they didn't have the good fortune to come down with
17 the right illness related to the World Trade Center
18 would just be a sin. I urge you to reflect upon
19 the choice that you make here and to include cancer
20 in this bill. The amount of funds that have been
21 allocated is the amount of funds. That will not
22 change. So do the right thing, please, and that is
23 to include cancer in this bill. Thank you.

24 DR. MIDDENDORF: Thank you very much. Our next
25 commenter is Collin Ecosta (ph). Mr. Ecosta, are

1 you on the phone per chance?

2 (no response)

3 Okay. If he happens to come in, we have a little
4 bit of time at the end, we can move him to that
5 time period. We'll move on then, and the next
6 person is Mr. Alonzo Harris.

7 ALONZO HARRIS: Good morning everyone. My name is
8 Police Officer Alonzo Harris. I was a first
9 responder on 9/11.

10 Today I want to take you back to 9/11 and what it
11 was like. I was a first responder when the plane
12 hit on the building -- hit the first building. I
13 also was there when a plane hit the second
14 building. After being tumbled and buried under a
15 car, I made my way back to my precinct and then I
16 was taken to Bellevue Hospital. But the reason I'm
17 here today is I wanted to express and show the
18 panel what it was like.

19 I have something very significant today for all of
20 the thousands of first responders that responded
21 here, and this is the uniform that has been tested
22 by Dr. Robert Lee who yesterday was here and he
23 showed you some examples, I would like to bring out
24 the uniform. I don't want nobody to get scared of
25 anything; it's sealed. But I just want you to know

1 what it is like for the first responders, the
2 firemen, the policemen, all the city workers who
3 was down there, what they accept and this is what
4 it is. This is what they exposed to.

5 When I got home on that tragic night, I just sat
6 back, my body was full of -- it was like I was full
7 of an electric person 'cause when the building, the
8 second tower came down, my whole body was just
9 electric. So I said, you know, this is not good.
10 Let me put this uniform up. I put it in the bottom
11 of my closet and I was going to put a harsh memory,
12 a damp, damp, memory away. And I stayed home for
13 like a week and a half.

14 After several years, one of my good partners, her
15 name was Mattie Carlos, she worked in PSA 5, she
16 succumbed to cancer at Sloan-Kettering Hospital.
17 And last year I said you know what, we got
18 something, I'm going to reach out to this doctor,
19 Dr. Lee, who's been doing scientific study down
20 there, and give him this uniform just so he can
21 test it and see what's going on, with a lot of
22 people who has been diagnosed with this.

23 This was a vehicle, this is a vehicle on how and
24 what people were facing. Can I pass it around?

25 This is not a do-right or do-wrong situation to the

1 first responders; this is a life-or-death situation
2 for the first responders. That's why you see so
3 many of -- that's why you see so many of the police
4 and firemen and all the other city workers and
5 first responders coming down here to support this
6 situation.

7 I'm not going to take up a lot of time. It's very
8 emotional. I have been also diagnosed with asthma
9 today but it could be cancer tomorrow. I just
10 implore you that could have been your husband or
11 your wife, your son or your daughter, your child,
12 your family member. This is a real surreal
13 situation. This is why I want you to bring -- I
14 brought in the uniforms. Just imagine you being
15 down there, you on the panel being down there,
16 succumbing to all this smoke, this dust, covered in
17 this. And now ten years later, we here to fight
18 for putting one thing on the bill. The right thing
19 to do is to add cancer into the bill. Thank you so
20 much.

21 DR. MIDDENDORF: Thank you very much, Mr. Harris.
22 Mr. Harris? Is it possible to get a copy of this
23 photograph that you're sharing with the committee?

24 ALONZO HARRIS: Yes, it is. Sure.

25 DR. MIDDENDORF: If you could send it to me by

1 email or whatever, I would appreciate it.

2 ALONZO HARRIS: All right.

3 DR. MIDDENDORF: The reason I need it is that we
4 need to be able to put it into the docket.

5 ALONZO HARRIS: Can I walk around with the uniform
6 so they can just see -- for you guys to see, if who
7 wants to see it, they can see it --

8 DR. MIDDENDORF: Sure. Sure, go ahead.

9 ALONZO HARRIS: -- on a close-up basis.

10 (pause)

11 DR. MIDDENDORF: Thank you very much, Mr. Harris.
12 Our next presenter is on the phone. Ken Zevekus
13 (ph). Mr. Zevekus, are you on the phone? If you
14 are, please unmute it.

15 KEN ZEVEKUS: Yes, can you hear me?

16 DR. MIDDENDORF: Yes, we can hear you now.

17 KEN ZEVEKUS: Okay. Good morning. Thanks for
18 giving me the opportunity to speak to you, today.
19 I'm a retired New York City chief officer. I was
20 there on 9/11, and I would like to share something
21 with you. I don't know how old the panel is but
22 I'd like to give you some new information that you
23 may not be aware of.

24 Ironically in 11 more days it will be the 37th year
25 anniversary of the infamous telephone company fire

1 in New York. Over 440 of my brothers responded to
2 that fire that day, and within five days of that
3 fire, roughly 200 of them had chest pains, couldn't
4 breathe, all other types of respiratory maladies.
5 And approximately ten to 15 years after that, half
6 of that number, roughly 100 of those guys, were
7 dead from cancer.

8 Now in the ensuing years, through the federal
9 government and various OSHA and NIOSH programs, it
10 was determined that there was -- this was our first
11 exposure to a hazardous material, polyvinyl
12 chloride, and in the early 90s, some other unique
13 information was discovered that the New York City
14 Fire Department had the highest cancer rate in the
15 nation -- in the world, because we responded to the
16 most amounts of incidents and fires that any city
17 that would ever have.

18 I was part of a small group; I was part of 14
19 unique individuals who were given over 225 hours of
20 training, brought up to what they called the
21 technician level; and it was our job to transmit to
22 first responders: police, fire, all first
23 responders, military, that the exposures that we
24 were likely to have at chemical fires, hazardous
25 material fires, things like that, never thinking

1 that ten years later, roughly 2001, it would be
2 deja vu; it would be all over.

3 You talk about going numb? The second that plane
4 hit I knew what was going to happen because I knew
5 every single one of us who were going to be there,
6 all the firemen, all the cops, all the innocent
7 bystanders who got caught up in that whirlwind,
8 that we were going to become a new panel of
9 statistics, and sure enough, just like at that
10 World Trade Center -- I'm sorry, the telephone
11 company fire, approximately ten years after that
12 fire, all of a sudden this stuff starts to manifest
13 itself again.

14 I don't know why it's taking a brain surgeon or a
15 nuclear physicist to even think about that that
16 cancer didn't come because of what we all were
17 exposed to on that date. I think it's criminal; I
18 think it's immoral for anybody not to admit that,
19 that that's a possibility.

20 We didn't go there because we were getting paid.
21 We were professionals, we were highly motivated, we
22 were motivated to save human life, something that
23 only God, I was brought up, could do. But we were
24 trying to be like God that day and we were trying
25 to save as many of our fellow citizens as we could.

1 And a lot of us now are starting to pay the price
2 for that. I'm asking that you, I'm asking that
3 governments, municipalities, whoever, step up and
4 do the right thing now for us, like we did the
5 right thing for you on that day. Thank you.

6 DR. MIDDENDORF: Thank you very much, Mr. Zevekus.
7 Our next commenter is also on the telephone,
8 Victoria Gilles (ph). Ms. Gilles, if you're there,
9 please unmute.

10 VICTORIA GILLES: Yes, good morning.

11 DR. MIDDENDORF: Morning.

12 VICTORIA GILLES: I'm a good will ambassador from
13 Washington State, and after 9/11 I did, with the
14 Seattle Benevolence Association, I did a big event
15 raising \$50,000 for the widows' and children's fund
16 for the FDNY. Deputy Chief Nick Visconti, at the
17 time, attended that, along with Assistant to Chief
18 of Department, Pete Ganci, who died on 9/11, Steve
19 Masiello, attended this event.

20 After we had raised the money I took the check back
21 to New York City. I visited a lot of stations,
22 seeing a lot of the memorials, listening to a lot
23 of stories from a lot of the men and women that
24 were telling me about their brothers and sisters
25 that were lost. A lot of the men would say to me,

1 would -- they're not going to remember us. They're
2 going to forget. And I would say to them, who
3 could ever forget this? Who could ever forget this
4 tragedy? But they believed that they would be
5 forgotten. In April of last year when bin Laden
6 was caught, on the day he was caught, my friend,
7 Steve Masiello, when I talked to him on the phone,
8 had told me he was diagnosed with esophageal
9 cancer. His comments to me were: I'm a Vietnam
10 vet, 9/11 vet, I watched my best friend die on
11 9/11, and I took care of his kids from there on
12 out, they lived across the street from me. This is
13 what it comes to for me at 58 years old, this is
14 what it comes to my brothers and sisters that are
15 dying in record numbers.

16 I made a promise to him, that his government did
17 care. And he kept saying they don't care. They
18 don't care about us. I said I will help you with
19 whatever I can. He sent me a newspaper article
20 that was telling me about the James Zadroga Bill.
21 He asked for my help. He said, I will be dead in
22 two months, Vicky. But whatever you can do to help
23 me and to help my brothers and sisters that this is
24 going to happen to, because rest assured it's going
25 to happen, would you please do it? I said

1 absolutely, I will do what I can.

2 I am married to a first responder, to an incident
3 commander, who, as he watched the World Trade
4 Centers come down, as we all did on that horrific
5 day, kept saying to me, where's the respirators?
6 Where are the respirators? Why do they not have
7 respirators on? There were very few people wearing
8 those respirators in that toxic dust. Of those
9 towers that were built in the 1960s, that it was
10 obvious that with asbestos and everything else that
11 was going on, there was going to be problems later.
12 The U.S. needs to take care of their own. I wrote
13 letters to 14 senators and congressmen. Senator
14 Steve Hobbs, from Washington State, is the only one
15 that spoke up. He sent letters to U.S. Congressman
16 Adam Smith, who spoke up and has been letting me
17 know what they're -- what they've been doing since
18 then.

19 It is shameful as people from the United States
20 that we are not taking care of our own, our own
21 heroes, when we take care of everybody else out
22 there. It is shameful it's been ten years. It is
23 shameful that politicians went to bat for the James
24 Zadroga Bill, which had to do with cancer, and then
25 took cancer out of the bill.

1 First responders are not meant to go to war. They
2 are meant to save lives in fires and accidents and
3 things like that, but not war. We owe it to them
4 as our heroes to do the right thing. Do we
5 actually expect, as a police officer before me
6 said, for them to go back into anything that might
7 happen, and with terrorist attacks happening right
8 now around the world, this could happen again in
9 the State of Washington. Does it need to happen in
10 our own back yard before we get the big picture?
11 Do we actually expect them to go back into
12 buildings such as the World Trade Center, the
13 Pentagon, whatever, and do the same thing over
14 again, when we are not taking care of them?
15 I want to say to the people on the phone, I
16 understand what you're going through. My husband
17 and I care. We care. There are people that care.
18 And we will fight this until something is done. We
19 are not going away. Thank you.

20 DR. MIDDENDORF: Thank you very much, Ms. Gilles.
21 Our next commenter is Stephen Levin. Okay, I don't
22 see him here. You don't happen to be on the phone,
23 do you, Mr. Levin? Okay. Again, I'll move him to
24 the back of the list and then we'll call on him to
25 see if he happens to show up.

1 So we'll go to the telephone again. Eric Ashlie.

2 Mr. Ashlie, are you on the line?

3 ERIC ASHLIE: Yes.

4 DR. MIDDENDORF: Okay.

5 ERIC ASHLIE: Can you hear me?

6 DR. MIDDENDORF: Yes, we can hear you.

7 ERIC ASHLIE: All right, thank you. My name is
8 Eric Ashlie, and I'm calling today on behalf of
9 Washington State Senator Steve Hobbs. First I
10 wanted to thank the committee for allowing
11 testimony on this matter. It's extremely important
12 and I appreciate that. More importantly, thank you
13 so much to those of you that have testified before
14 me yesterday and today.

15 Those who were at Ground Zero on the front lines
16 over ten years ago deserve more than what Congress
17 has offered them in the current legislation. The
18 first responders of 9/11 are America's most
19 courageous men and women. Victoria Gilles, who
20 just spoke, came to us back in August and said, she
21 basically said exactly what she just said to us,
22 and we were astounded that cancer had been taken
23 out.

24 While I understand that the first review that came
25 out did not establish presumption of cancer, since

1 then we have seen a series of studies that do so.
2 Now is the time for the committee to recognize this
3 opportunity and recognize the men and women who
4 were brave enough to step up for their country --
5 for our country, back on September 11th. I know
6 there are a lot of people that want to testify
7 today so I'm going to keep it short, and we've
8 already provided written testimony. God bless all
9 of those of you that have been part of this
10 experience and have family and friends that have
11 been affected. Thank you so much. That's all I
12 have.

13 DR. MIDDENDORF: Okay. Thank you very much,
14 Mr. Ashlie.

15 Our next commenter is Esther Regelson.

16 ESTHER REGELSON: Hi. My name is Esther Regelson,
17 and I live three blocks south of the World Trade
18 Center site. I was caught in the dust cloud on
19 September 11th and moved back into my apartment five
20 months later.

21 The EPA conducted no testing or cleanup of our
22 building, although it said it was contaminated. To
23 this day I am uncertain to what degree my apartment
24 and the rest of my building were cleaned of the
25 World Trade Center dust, raising concerns about

1 further exposures long after the events of 9/11.
2 Although I had preexisting asthma, my asthma
3 worsened significantly after 9/11. Subsequent
4 tests at the World Trade Center Environmental
5 Health Center showed that my lung capacity was only
6 43 percent of normal. Thankfully that capacity has
7 increased due to the specialized treatment that I
8 have received at the WTC EHC.

9 I'm a member of the World Trade Center Health
10 Program survivor steering committee. And on behalf
11 of the committee, I would like to summarize our
12 ideas regarding NIOSH's WTC research approach and
13 priorities. The survivor steering committee plays
14 an advisory role in the administration of the
15 survivor health program, and represents the
16 community of affected non-responder WTC
17 stakeholders.

18 First, there are a wide range of knowledge gaps
19 with respect to science, biology and treatment of
20 WTC-related illnesses. NIOSH should close these
21 gaps by supporting a diverse portfolio of studies
22 at different levels of funding that includes pilot
23 studies, clinical trials, studies of disease
24 mechanisms, epidemiological studies and basic
25 science research. We urge the creation of key

1 resources that are useful to multiple
2 investigators.

3 Second, NIOSH should encourage and fund proposals
4 that address health effects to survivors as well as
5 responders. Studies of survivor populations should
6 address health effects on those living, working and
7 attending school in the impact zone defined by the
8 Zadroga Act and represent the diverse populations
9 and geographic areas affected. Wherever feasible,
10 cancer incident studies must include survivors as
11 well as responders.

12 Third, NIOSH should recognize that WTC research is
13 disaster science. Especially with respect to the
14 survivor community, researchers are operating in
15 the absence of preexisting baseline data or
16 comprehensive environmental measurements from which
17 to assess exposures. These limitations must not
18 become an insurmountable barrier to meeting the
19 health needs of 9/11 survivors.

20 Fourth, NIOSH should encourage researchers
21 committed to collaborating with affected
22 communities, using a community-based participatory
23 research or CBPR model for their studies. The
24 benefits of the CP -- BPR model are well
25 established.

1 Fifth, NIOSH must strengthen the surveillance
2 function of the data centers to gather and analyze
3 data in a timely fashion. Otherwise there is
4 little chance that important trends, including the
5 emergence of new conditions, will be recognized.
6 Sixth, NIOSH should ensure that all research
7 proposals receive proper peer review by including
8 appropriate specialists. We also have the
9 following recommendations regarding WTC Health
10 Program research priorities for the survivor
11 population: one, given children's increased
12 susceptibility to harm, especially in critical
13 periods of development, it is imperative that NIOSH
14 move quickly to support in-depth studies of
15 respiratory, developmental and endocrine health
16 impacts for this rapidly dispersing cohort; two, we
17 recommend that blood samples be collected from
18 WTC-exposed children and preserved for later
19 analysis including the freezing of live cells
20 containing genetic markers. These samples could
21 prove useful in at least three ways: as potential
22 source of biomarkers for exposure to WTC toxics, as
23 a source of protein markers of disease with
24 potential use in diagnosing and understanding
25 WTC-related illness, and as a source of genetic

1 material which can be analyzed for evidence of
2 genetic alterations relevant to disease that may be
3 detected many years after exposure.

4 Strong protocols to protect privacy of all data
5 must be developed in consultation with the survivor
6 steering committee.

7 Three, because so little is known with respect to
8 inflammation and other underlying mechanisms for
9 WTC illness such as sarcoidosis, cancer and asthma,
10 it is critical that NIOSH support studies of
11 disease mechanisms.

12 DR. MIDDENDORF: One minute, please.

13 ESTHER REGELSON: I'm almost done. Four, cancer
14 incidence and prevalence must be tracked across all
15 WTC populations.

16 And five, last, in addition to -- in an analysis of
17 WTC EHC patients, 60 percent screen positive for
18 mental health condition, 40 percent of whom had
19 symptoms of PTSD, anxiety and/or depression. Those
20 with lower respiratory problems seem particularly
21 vulnerable.

22 There is a growing literature on the impact of
23 parental PTSD and depression on children's mood,
24 anxiety and behavior, including one study among
25 9/11 survivors. It would therefore be valuable to

1 investigate the impact of parental mental health
2 disorders on their children's mental health as well
3 as children's mental health on their parents. This
4 would provide essential information about the
5 intergenerational transmission of mental illness
6 after a terrorist attack. A version of these
7 comments has been submitted by our committee co-
8 chairs to the NIOSH docket. On behalf of the
9 committee, thank you for your time.

10 DR. MIDDENDORF: Thank you very much. Next
11 commenter is Fred Krines.

12 FRED KRINES: Good morning. My name is Fred
13 Krines; I'm employed by the New York City Police
14 Department. On September 11, 2001, as the disaster
15 occurred at the World Trade Center, I was one of
16 the first responders, thereafter as a volunteer.
17 Me and my coworkers responded over there without
18 hesitation. We dug through the piles and
19 thereafter that I also was ordered to go over
20 there.

21 2010 of June, I was diagnosed with follicular
22 dendritic cell sarcoma, a very rare cancer.

23 (Indiscernible)-wise, there's 50 of them in this
24 world today. I had a radical (inaudible)-section
25 performed June 2010 with (indiscernible) treatment

1 after that, chemotherapy and 45 days of radiation.
2 I'm asking you to add cancers in the bill for
3 medical treatment.

4 I was very lucky that the doctors caught this on
5 time, and they performed surgery. 'Cause if it
6 wasn't, I would have been dead today. And that's
7 all I want to say.

8 UNIDENTIFIED SPEAKER: I couldn't hear what kind of
9 cancer it was.

10 FRED KRINES: Follicular dendritic cell sarcoma.

11 UNIDENTIFIED SPEAKER: I don't know what that is.

12 FRED KRINES: It's a very rare cancer; there's
13 maybe 50 of it known worldwide. I have
14 documentation over here for it, if you want to see
15 it. And it's just, like the doctor said, it's just
16 I have to go for PET scans every six months because
17 it's a rare cancer that nobody knows about. I just
18 want to have the doctors of the panel over here
19 just to recommend cancers in -- when they go in
20 front of Congress next month so people could have a
21 chance to live. Thank you.

22 DR. MIDDENDORF: Thank you very much. Micki Siegel
23 de Hernandez.

24 MICKI SIEGEL DE HERNANDEZ: Good morning. My name
25 is Micki Siegel de Hernandez, I'm the health and

1 safety director for the Communications Workers of
2 America; we represent mostly nontraditional
3 responders as well as area workers.

4 I wanted to make a few comments about the Sinai
5 study results that were reported on yesterday by
6 Dr. Landrigan, particularly for those of you on the
7 panel who are still wedded to the idea that
8 epidemiological studies are the ultimate proof
9 needed to add cancer as a covered condition.

10 I wanted to comment on the ways in which these
11 studies, like the Sinai study, are an underestimate
12 and an undercount of the true rates of cancers.

13 When I consider these limitations, it makes the
14 Sinai analysis and their results even more
15 striking. For one, the results are for a portion
16 of responders, not the entire group of responders,
17 the true number of which is actually unknown. As
18 you heard testimony today, none of the national --
19 the thousands of national responders are included
20 in any of these studies. And this is especially
21 important with regard to rarer cancers, but
22 certainly for all.

23 The results are also based upon patient matches
24 with cancer registries, the Sinai results. The New
25 York State Cancer Registry has a two-year lag time.

1 The New York State Cancer Registry -- in other
2 words, the more recent, these past two years,
3 cancer cases reported to the New York State Cancer
4 Registry, would not be counted in the Sinai
5 results.

6 The New York State Cancer Registry is also better
7 at capturing certain cancers, solid tumors, less so
8 for others. Blood cancers, one of the World Trade
9 Center cancers of concern, most concern, are less
10 likely to be reported and counted in the New York
11 State Cancer Registry.

12 Fourth, as other commenters have talked about
13 today, many responders with cancer are not part of
14 the World Trade Center Health Program for many,
15 many reasons. When I speak to our union members
16 with cancer, and there are many, some of which with
17 multiple cancers in addition to their other World
18 Trade Center-related disease, I always ask if they
19 are a patient in the World Trade Center Health
20 Program and if not, why. These are the two most
21 common reasons for nonparticipation: first,
22 obviously when a person has cancer, their life is
23 consumed by their disease and their treatments.
24 The World Trade Center Health Program does not
25 currently cover cancer and so many people see no

1 reason to be part of the program. And to go for
2 more doctor visits on top of what they are already
3 dealing with in their lives.

4 The second reason for nonparticipation for many
5 people is that they are just plain angry, and
6 understandably so, that their diseases have not yet
7 been recognized and covered in the program, and
8 they refuse to participate for that reason alone.

9 Finally, I would like to comment about the
10 selection of certain cancers, and I worry about
11 cherry-picking which cancers to include given the
12 incredible range of carcinogens and other
13 contaminants that people were exposed to. This
14 would be a huge disservice to those people who were
15 simply unlucky enough to get the wrong cancer at
16 this time, like the gentleman who just testified.
17 It also worries me because it is hard to imagine a
18 way in which additional cancers, one by one,
19 especially rarer cancers, will ever get added to
20 this list unless record number of responders and
21 others contract a particular disease, get sick and
22 die.

23 As Dr. Melius said earlier, your decision is
24 ultimately about enabling those affected to receive
25 care to get that care. I personally would rather

1 fight for adequate funding for both the World Trade
2 Center Health Program and the victims' compensation
3 fund than exclude those deserving of this care. I
4 hope you keep all these things in mind today as you
5 deliberate. Thank you.

6 DR. MIDDENDORF: Thank you very much. Bill
7 DeBlaiso? Apparently he was held up downstairs.
8 We'll move him to the back of the line again. Jo
9 Polett?

10 JO POLETT: My name is Jo Polett, and I live at 105
11 Duane (microphone issues). How's this? Okay. My
12 name is Jo Polett, and I live at 105 Duane Street,
13 a 52-story high-rise located seven blocks north of
14 the World Trade Center site. Constructed in 1990,
15 the building has no asbestos-containing material.
16 Yesterday we heard panelists and members of the
17 public note the disconnect between reassuring
18 government sampling results and the health effects
19 of many of those exposed to World Trade Center dust
20 and smoke. The 2002 ATSDR NYC DOH final technical
21 report of the public health investigation to assess
22 potential exposures in settled surface dust in
23 residential areas of lower Manhattan. A good
24 example of that disconnect is cited on page one of
25 the NIOSH February 2012 WTC OPC document prepared

1 for this committee.

2 I'm concerned that someone hoping to learn
3 something about residential exposures might read
4 the ATSDR NYC DOH study, so I'll spend a few
5 minutes telling you what I know about it.

6 In November and December of 2001, ATSDR NYC DOH
7 sampled in and around 30 residential buildings for
8 asbestos, SVF and mineral components of concrete
9 and building wallboard.

10 You may recall that at the last meeting of this
11 committee I provided you with asbestos and lead
12 sampling results from my building. I'll quickly
13 reprise some of the asbestos results. On December
14 3rd, 2001, CIH sampled the supply air diffuser on
15 the tenth floor, sample was collected by MicroVac
16 and analyzed by TM for asbestos. The sample tested
17 positive for asbestos at a level of 550,000
18 structures per square centimeter; that's 50 to 500
19 times above expected background.

20 Additional subsequent sampling of the entry door
21 frame of a fifth-floor apartment yielded a result
22 of 123 asbestos structures per square centimeter,
23 indicating that the ventilation system was
24 circulating asbestos through hallways and into
25 apartments, sampling of the fan coil unit of the

1 living room heating and air conditioning in that
2 unit yielded a result of 37,000 asbestos structures
3 per square centimeter. Not only was my building
4 one of the 30 buildings sampled by ATSDR NYC DOH
5 for their study, but the fifth floor apartment, the
6 results I just cited, was one of the two residences
7 in the building that was sampled.

8 Yet according to the ATSDR NYC DOH report, no
9 asbestos was found in the common areas of the
10 building or in either of the apartments that were
11 sampled. How is that possible?

12 According to the comments of Dr. Eric Chatfield, an
13 asbestos expert who reviewed the study when he
14 served on the peer review committee for EPA's
15 exposure in human health evaluation paper in 2003,
16 quote, I think that asbestos was likely present in
17 all of the bulk samples collected and that the
18 failure to detect asbestos in many of the indoor
19 settled dust samples or the outdoor samples was a
20 question of deficiencies in either the analytical
21 method or the conduct of the method.

22 So what was the purpose of conducting such sloppy
23 sampling? Well, we were informed of these results
24 in January of 2002, during a dispute with the
25 landlord about whether and how to clean the

1 ventilation system.

2 DR. MIDDENDORF: One minute, please.

3 JO POLETT: A letter from New York City Department
4 of Health, stating that there was no asbestos at
5 105 Duane Street was distributed to every tenant in
6 the building along with a 105 Duane Street fact
7 sheet compiled by the New York City Department of
8 Health, disputing the validity of our finding and
9 condoning the landlord's plan to use a company that
10 was not certified in asbestos and had never cleaned
11 a tall building to clean the ventilation system. I
12 mean, this looks pretty innocuous. Here's the
13 study but this study, like the EPA sampling
14 results, were weaponized and used against us when
15 we tried to make our building safe for habitation.
16 Thank you.

17 DR. MIDDENDORF: Thank you very much. The next
18 presenter is Jewell Bachrach.

19 JEWELL BACHRACH: Good morning. I'm Jewell
20 Bachrach. Can you hear me? I live at 18 North
21 Moore Street, which is the northern end of the
22 accepted community that has -- is supposed to get
23 response by government forces. I've lived the
24 majority of my years down here -- lived and worked.
25 I've lived here since 1968 of -- when the --

1 however, when the report came in after analyzing my
2 apartment, it had asbestos, and now to -- and two
3 years ago I was operated on for lung cancer,
4 although I have lived a very healthy lifestyle. I
5 never smoked in my life.

6 One of the problems is no one's ever cleaned, even
7 though it's supposed to be the area which all this
8 debris has fallen and which you know to be really
9 serious problem -- no one's ever cleaned the
10 outside of the buildings. I don't know what's
11 happened in 2012. I bet you could find something
12 now. I mean, even though I live a half a mile
13 away, they found, they found asbestos and I mean,
14 it shocked me that I have -- that I had lung
15 cancer. It was luckily caught comparatively early.
16 But I'm constantly bombarded with radiation because
17 they need to take tests every few months to find
18 out if I'm still clean. You know, I'd like some
19 other way to die. I'm going to be 80 and I want to
20 live a little longer.

21 I really think cancers should be considered one of
22 the problems here, since that should not have been
23 a reason for me to die. I mean, I haven't lived a
24 life like that. Please, please do consider it.
25 You've had very excellent people who have come up

1 here, who have really analyzed the situation and
2 where -- it's -- where -- further work could be
3 done. That's fine. But no one in this operation
4 knows that I had cancer. It was just lucky -- I
5 mean, I was just lucky in that since I was more
6 than 65, God bless Medicare, had paid for it.
7 One week in the hospital cost the federal
8 government for me \$92,000, and yet the only
9 medication that I got, that I asked for was a
10 vitamin pill and a stool softener plus a little
11 numbing of my nerve endings after the operation.
12 That's all I got. And the bill was \$92,000. You
13 know, come on, help. Thank you.

14 DR. MIDDENDORF: Thank you very much, Ms. Bachrach.
15 Our next commenter is Bill DeBlaiso. Apparently
16 he's downstairs in line and trying to come up. How
17 about Collin Ecosta? Or Stephen Levin?
18 Mr. DeBlaiso?

19 BILL DEBLAISO: Thank you very much. Thank you for
20 the opportunity to speak before you today. I'm
21 sorry I'm running a few minutes late, I'll be
22 brief. Good morning to everyone and I'd like to
23 thank the committee for addressing the critical
24 issue of adding cancer to the list of World Trade
25 Center-related health conditions as specified in

1 the Zadroga Act.

2 As public advocate for the City of New York, I am
3 reminded regularly of the horrors of September 11th,
4 2001, and the tragedy brought upon our city.

5 Unfortunately many of our men and women who served
6 as first responders on 9/11 and in its aftermath
7 remember that day for a far different reason. They
8 are currently suffering from cancer as a result of
9 the toxins that were exposed to -- that they were
10 exposed to during the recovery and cleanup
11 operations.

12 Mt. Sinai Medical Center has treated thousands of
13 first responders and it's conducted extensive
14 research into the connection between illnesses
15 these individuals have developed and their exposure
16 to toxins at Ground Zero. I recently called on the
17 City to provide Mt. Sinai with all available
18 information regarding New York City police officers
19 who served at Ground Zero and subsequently
20 developed cancer. But while the City obfuscates,
21 these individuals suffer, and even more fear the
22 day when they may be diagnosed further.

23 When the planes struck our city on 9/11, these
24 brave men and women answered the call of duty,
25 never once pausing to think about long-term health

1 implications. In the days and weeks following 9/11
2 many of these first responders continued to work
3 around Ground Zero and at the Fresh Kills Landfill,
4 breathing in the toxins that cause their suffering
5 today. They worked in difficult conditions
6 surrounded by a cloud of dust that contained known
7 carcinogens such as asbestos, benzene and dioxin.
8 Any of these elements on their own would be
9 extremely dangerous; mixed together in the air,
10 they have proven deadly.

11 Research by the New York City Fire Department has
12 found a 19-percent higher cancer rate among FDNY
13 members who had been at Ground Zero than among
14 those who had not. Mt. Sinai has already found
15 four cases of multiple myeloma among responders
16 under age 45, an extremely young age for diagnosis.
17 Just recently cancer-causing toxins were found on
18 the uniform of Officer Alfonzo (sic) Harris, who
19 survived being buried in the World Trade Center
20 debris on 9/11.

21 I understand the purpose of this committee is to
22 review scientific and technical information in
23 order to make a recommendation to the administrator
24 of the World Trade Center Health Program, yet
25 common sense shows us the suffering is real. These

1 individuals are struggling and dying of cancer
2 right now.

3 The Patrolmen's Benevolence Association has found
4 at least 297 officers who served in the World Trade
5 Center operations have been stricken with cancer.
6 Another 66 have died of cancer since 9/11. Before
7 September 11th, 2001, an average of six police
8 officers per year were diagnosed with cancer, so
9 again, 297 officers have been stricken since 9/11,
10 66 have died. Previous to that an average of six
11 police officers a year were diagnosed with cancer.
12 Ever since the attacks an average of 16 police
13 officers a year are now diagnosed with cancer,
14 constituting an increase of nearly 300 percent.
15 The NYPD lost 23 officers on September 11th, 2001,
16 but even more have given their lives since that
17 tragic day as a result of cancer they developed in
18 the aftermath of the attacks. Take the story of
19 Officer Robert Oswain. Officer Oswain, a native of
20 Mount Vernon, spent over 200 hours down at Ground
21 Zero, working 12-hour shifts, breathing in toxic
22 air that we know was filled with carcinogens. In
23 2007, while in his early 40s, Officer Oswain was
24 diagnosed with a stage IV flat skin tumor, which is
25 a cancer of the bile duct.

1 DR. MIDDENDORF: One minute, please.

2 BILL DEBLAISO: This is an extremely rare form of
3 cancer that usually develops in patients older than
4 65. Officer Oswain had no history of cancer in his
5 family. The only known risk factor he had for
6 developing this rare type of cancer was exposure to
7 toxins, including asbestos and dioxin, which were
8 present in the air, dust and debris at Ground Zero.
9 As Officer Oswain fought for his life, he also
10 advocated for the passage of the Zadroga Act with
11 specific inclusion of certain types of cancer on
12 the list of World Trade Center-related health
13 conditions. Sadly, he lost both fights.
14 But here today you can right -- at least right one
15 of these wrongs by recommending that cancer be
16 added to the list of World Trade Center-related
17 health conditions so that every first responder
18 suffering from these rare cancers, can get the help
19 and support that Officer Oswain never had the
20 chance to receive. Please don't let his story get
21 lost in your analysis because the City refuses to
22 turn over all of the necessary data for this study.
23 That our first responders are suffering without
24 needed medical care is outrageous and shameful. As
25 their advocate, I strongly urge you to include

1 cancer under the James Zadroga Health and
2 Compensation Act. Thank you very much.

3 DR. MIDDENDORF: Thank you very much. Mr. Levin?

4 STEPHEN LEVIN: Thank you very much, members of the
5 committee, for the opportunity to testify before
6 you this morning. In the interest of allowing
7 frankly more important testimony this morning from
8 first responders and professionals, I am going to
9 keep my remarks very brief.

10 My name is Stephen Levin, I am a council member for
11 the 33rd district in Brooklyn, and I am here today
12 to strongly urge you to include at the very least
13 some cancers, including but not limited to blood
14 cancers, including leukemia, lymphoma and myeloma,
15 nasal cancers, thyroid cancer and prostate cancer.
16 And for those currently that -- and those cancers
17 that currently meet less of an evidentiary
18 standard, that this committee continue to study
19 them very closely.

20 From the testimony that you have heard over the
21 past day, the anecdotal evidence is absolutely
22 overwhelming and in my opinion indisputable, that
23 certain cancers are linked to work at Ground Zero.
24 However, I believe that this committee is beginning
25 to see clear scientific evidence emerge that even

1 more firmly establishes that link.

2 I serve on the Lower Manhattan Redevelopment
3 Committee on the City Council. Two and a half
4 weeks ago, we held a hearing on the 2011 report of
5 the New York City World Trade Center Medical
6 Working Group. Frankly I found this report and the
7 Bloomberg administration's answers to my questions
8 to be very frustrating. The report says, quote,
9 the first World Trade Center cancer risk study to
10 be published found that firefighters with World
11 Trade Center exposures may be at a greater risk for
12 cancer than firefighters who weren't exposed. I
13 call that the understatement of the year
14 considering that the FDNY report found a 19- to 30-
15 percent increase in cancer among firefighters who
16 served at Ground Zero.

17 In response to my questions about how many studies
18 would be needed to establish a scientific link
19 strong enough for this committee to proceed with
20 covering cancer, Dr. Carolyn Greene, Deputy
21 Commissioner of Epidemiology at New York City
22 Department of Health, demurred.

23 While yesterday this committee heard some
24 preliminary results from Dr. Philip Landrigan of
25 Mt. Sinai on their study -- on their World Trade

1 Center Health -- their study of the World Trade
2 Center Health Program, showing a 14-percent
3 increase among a broad range of cancers. The
4 question I ask is when is enough evidence enough?
5 I found his challenge to this committee to be
6 particularly appropriate. And I won't try to
7 paraphrase but I will put my own spin on it.
8 Knowing that you will never in many years achieve a
9 100-percent ironclad proof from epidemiological
10 perspective of a Ground Zero to cancer link, when
11 does this committee make the judgment based on
12 overwhelming anecdotal evidence, a growing number
13 of medical studies, and just plain old common
14 sense, to vote to have certain types of cancers
15 covered under the Zadroga Act, in accordance, I
16 believe, with the intent and spirit of the
17 legislation? I believe that that time is now and
18 that this committee should listen not only to all
19 of the growing evidence but also to its collective
20 conscience. If you do not act, for far too many,
21 justice delayed will be justice denied. Thank you
22 very much for the opportunity to testify.

23 DR. MIDDENDORF: Thank you very much. One last
24 call for Collin Ecosta? Apparently Mr. Ecosta has
25 decided not to provide his comments.

1 On behalf of the committee, let me thank each and
2 every one of the public commenters of today and
3 yesterday, both here in person and on the phone,
4 and also those who have submitted their written
5 comments. It really does provide the committee
6 with a very different perspective than they can get
7 from just reading the literature and I think it's,
8 I think, very beneficial for them, so we very much
9 appreciate you taking the time and effort to come
10 and present your perspectives to them.

11 DR. WARD: Thank you. So at this point we'll take
12 a 15-minute recess and be back promptly. We'll be
13 back promptly at 10:40. Thank you.

14 (Recess taken 10:25 a.m. until 10:53 a.m.)

15 **DISCUSSION OF PETITION ON CANCER**

16 **DISCUSSION OF PETITION ON CANCER**

17 DR. WARD: So Paul is going to call the roll and
18 then we are going to --

19 DR. MIDDENDORF: I'll just make a note of it.

20 DR. WARD: Or just make a note of it; and then Paul
21 wants to say a few words about our overall charge
22 and perspective.

23 DR. MIDDENDORF: Okay, I think as we begin to
24 really think about the issue before us as to
25 whether or not to add canc -- or make any

1 recommendations or provide advice to add cancer or
2 a specific type of cancer, make that recommendation
3 to the program administrator, we need to know a
4 little bit about what the needs of the
5 administrator are.

6 It's important to recognize that whatever decision
7 the committee makes and whatever recommendation it
8 makes to the administrator, the administrator
9 needs -- will then take that information and make a
10 decision whether to move forward with the
11 recommendation or how to move forward with that
12 recommendation, anywhere from fully accepting it,
13 going beyond it, not accepting it, whatever. What
14 would be most helpful to him in help -- in making
15 that decision is if the committee spends a lot of
16 time really critically analyzing the underlying
17 assumptions, the underlying science that they are
18 making that decision -- or what they're basing that
19 decision on.

20 So I think in this particular case, since we have a
21 very unique situation where we all recognize that
22 the available science is rather limited, there are
23 large gaps in our knowledge, in fact the
24 information is evolving rapidly as we're trying to
25 make the -- this decision. So it's very important

1 that all of the assumptions, all of the
2 information, be critically looked at so that there
3 is a robust record that the administrator can use
4 to help make him -- to help him make a decision on
5 where he wants to go with the recommendation.
6 I think the other thing that we need to recognize
7 is that there's sort of a 600-pound gorilla in the
8 room, and that's that each of the members, I
9 believe, has a deep respect for each and every one
10 of the responders and survivors who's been impacted
11 by the attacks on 9/11. But, while each of us has
12 that respect and we want to honor those people, we
13 need to make sure that that does not prevent us or
14 inhibit us from really looking at the science,
15 understanding what it says, what it doesn't say and
16 what additional information might be needed, what
17 the assumptions are. So, while we want to honor
18 those responders and survivors, we want to make
19 sure that they understand that they are respected
20 by the committee, the committee needs to feel
21 comfortable having that open discussion, having a
22 robust discussion, so that in the end the program
23 administrator can make a good decision on what to
24 do. And in the end it is somewhat paradoxical if
25 the committee does not provide a good robust

1 discussion, then what may happen is that things may
2 not go forward appropriately, it leaves the
3 administrator open for attack or whatever -- not
4 attack, for questioning. So that if he tries to
5 move forward with a rule to add cancer or a
6 specific type of cancer, what could happen is that
7 it would be questioned more thoroughly. So
8 paradoxically it may wind up actually hurting or
9 inhibiting the ability of the administrator to
10 provide the relief that the committee feels is
11 appropriate if they don't do a good job of
12 describing the science and the underlying
13 assumptions.

14 DR. WARD: And I think you all heard -- or the
15 committee at least heard yesterday, I did have the
16 idea of taking a poll. That's one way to start off
17 the committee's deliberations. I think in terms of
18 where we are at the meeting, that's probably not a
19 good way to go. I think the way the poll is
20 constructed really doesn't capture the complexity
21 of peoples' opinions, so what I'd like to do as an
22 alternative, though, is to give everyone on the
23 committee the opportunity to speak about where, you
24 know, where they stand on the issue at this point
25 of whether cancer in general should be listed as a

1 World Trade Center-related condition or whether
2 specific cancers should be listed.

3 What Paul and I will do, and I'm hoping Paul will
4 do this, is I am eager to really record this in a
5 systematic way. So even though people don't have
6 to express a specific opinion about specific cancer
7 sites, if they do express that opinion, we're going
8 to try to tabulate it so at least we know where the
9 committee stands in relation to specific sites.

10 I probably will take some notes, and what I'm going
11 to be taking notes on is more some of the larger
12 issues, such that when we do write up any
13 recommendations to Dr. Howard, I can make sure
14 that, and we will have the transcripts, and we will
15 have the notes, but I'm not sure we'll have all of
16 those things in the time frame that we need to
17 write the letter, so I am going to take some notes
18 just to make sure I capture some of the important
19 ideas. So if that's agreeable to everyone, I'd
20 like to start. And I don't, I -- Steve, did you?

21 DR. MARKOWITZ: I have a question. I have a
22 question. The question is: I don't know if this
23 is on or not but --

24 Does Dr. Howard want advice on specific cancers
25 above and beyond a recommendation about cancer in

1 general?

2 DR. WARD: I think the way he phrased his letter is
3 yes but I'm sure Paul or someone else from the
4 NIOSH staff... I think it said something like
5 cancer or specific cancers but we'll verify that.

6 DR. MIDDENDORF: Yeah, it's right here.

7 DR. WARD: Yeah. It's phrased as, on whether to
8 add cancer or a certain type of cancer to the list.

9 DR. MARKOWITZ: So if I could suggest a way of
10 talking about it, perhaps we could have an initial
11 discussion on, in general, whether at least some
12 cancers are related to exposures, and then
13 secondarily talk about specific cancers, as opposed
14 to mixing the two topics into the same
15 conversation.

16 DR. WARD: So you're saying, just to make sure I
17 understood you, first ask peoples' opinions about
18 whether specific cancers should be listed and
19 second, to talk about the issue of cancers overall?
20 Is that what you're --

21 DR. MARKOWITZ: Well, in reverse order.

22 DR. WARD: Oh.

23 DR. MARKOWITZ: Yes, the different -- have a first,
24 a broader discussion about whether any cancers are
25 related and then secondarily what specific cancers,

1 specific cancers we would recommend.

2 DR. WARD: Okay. So that's a little different from
3 what I said but I think I understand it now. Okay,
4 whether any cancers and then, and then if yes,
5 which cancers. And Glenn?

6 DR. TALASKA: My question was about the process
7 that we're going to go through with this. Are we
8 planning, if we do make a recommendation one way or
9 the other, that we will have subcommittees to draft
10 the response, or what's your idea as far as how
11 we're going to proceed if we do, regardless of what
12 the outcome is?

13 Paul's got an answer.

14 DR. MIDDENDORF: Yeah.

15 DR. WARD: Good.

16 DR. MIDDENDORF: Whatever you decide has to be done
17 in an open meeting of the full committee. So
18 either it needs to be drafted today while we're
19 here or we need to try and establish another, a
20 meeting. Those are part of the FACA rules. It's a
21 federal advisory committee; it has to be done in an
22 open meeting.

23 DR. WARD: So one option again, depending on how
24 difficult the task is going to be and how much, I
25 mean, this is not going to necessarily be a 50-

1 page report; it could be a two- or three-page
2 report so, so one option, I think, that might make
3 sense is that I could draft something and then we
4 could have a teleconference to discuss the draft
5 and make any changes that we want to make.

6 DR. TALASKA: My only concern is with the
7 documentation. If we're going to document this
8 well, it's going to take some time to document and
9 can't be done just ad hoc, at least from my point
10 of view; I'm not that bright. So I can't provide
11 all the references that one would consider
12 including to make sure that the documentation is
13 robust.

14 DR. WARD: Okay, well, why don't we wait until the
15 end -- towards the end of the meeting to address
16 that, when we have a better sense of what we're
17 talking about?

18 DR. TALASKA: Okay.

19 DR. WARD: But I understand your concern and we'll
20 figure out some way to incorporate everyone's
21 input.

22 Was there anyone else who wants... Yes.

23 MS. DABAS: I just want to know if the
24 recommendation had to be unanimous amongst the
25 committee or just majority, and whether there was

1 going to be your opinions written?

2 DR. MIDDENDORF: Whatever the recommendation is, it
3 needs to be a majority of the committee, a majority
4 of the voting members, according to our bylaws.

5 DR. WARD: Okay, so I think the question we'd like
6 to address first, and I'll ask for volunteers, you
7 know, to speak, but I would love to hear from as
8 many members of the committee as possible so we
9 really have a sense. And so the question we're
10 going to address first is whether we think any
11 cancers should be listed as World Trade
12 Center-related.

13 And I'd like to give the people on the phone the
14 opportunity to speak first, not to put them on the
15 spot but just to make sure they have the
16 opportunity. If you would prefer to defer until
17 later in the discussion, that's okay, too, but let
18 me know if you'd like to speak.

19 DR. DEMENT: This is John.

20 DR. WARD: John, John, sorry.

21 DR. DEMENT: I guess, I feel like we're sort of
22 going a bit backwards with regard to any cancers,
23 and if you're asking me for a comment with regard
24 to I think it's reasonably anticipated that cancers
25 will result -- will come about as a result of this

1 exposure, my answer would be yes. But then I have
2 some concerns about a general statement about
3 cancers.

4 DR. WARD: So let me just paraphrase to make sure
5 we understand. So you're saying you think it might
6 be reasonable to say that some forms of cancer
7 might reasonably be anticipated to occur but maybe
8 not reasonable to say all cancers? Is that...

9 DR. DEMENT: Well, I, I think it's reasonably --
10 it's a reasonable anticipation that cancers will
11 result from this exposure; however, I think we need
12 to then go from there with some more discussions
13 about types of cancers that have greater support
14 for that conclusion.

15 DR. WARD: Okay. One thing we've done in the room
16 is we put up kind of a standardized list of cancer
17 types. We've put up a standardized list of cancer
18 types and I don't know if there's a way to -- which
19 is from the American Cancer Society's Cancer Facts
20 and Figures, but it's the same kind of
21 classification that's used by pretty much everyone
22 for human cancers. So Paul, if you can get it to
23 show the full screen, that would be great. And
24 this is just so that when we refer to -- if we want
25 to refer to cancers of different organ groups.

1 DR. MIDDENDORF: That is full screen.

2 DR. WARD: This is just a tool to help us
3 communicate. It's nothing more than that. And
4 people can access this online if they're at home at
5 an internet by going to the cancer.org website and
6 looking for the facts and figures publications.
7 Okay, so Virginia, any comments now or do you want
8 to hold off until later in the discussion?

9 DR. WEAVER: No, I do want to comment now because I
10 will not be able to rejoin you after lunch, so...
11 I would concur with John that I think that World
12 Trade Center exposures will increase risk for
13 cancer.

14 I think there may well be specificity within
15 particular types of cancer, and I base that based
16 on tox knowledge and work with firefighters exposed
17 to combustion products.

18 I also think that in documenting our determination,
19 there are some things that are critically important
20 to include in that because no matter what decision
21 we make, it will be -- it will generate a great
22 deal of discussion, and so I think it's very
23 important to document the discussion we had
24 yesterday about measurable increased risk in cancer
25 from only a month of asbestos exposure, about

1 decreased breast cancer rate with cessation of HRT,
2 and I also think Liz made some comments about
3 radiation that -- I was trying to teach and
4 couldn't hear all that well, but I think that it's
5 very important that we document measurable
6 increased risk from short-term or relatively
7 short-term exposures.

8 And then I think that it's important that we, if we
9 go forward with some type of cancer recommendation,
10 clearly document that we are not sitting and
11 waiting for epidemiology, that there are other
12 lines of science that we can use to move forward.

13 DR. WARD: Thank you.

14 So now turning to other members of the committee,
15 maybe you can signify with your tent cards when
16 you'd like to speak. Steve has his tent card up.

17 DR. MARKOWITZ: I also think that at a minimum
18 there's a reasonably strong likelihood that at
19 least some cancers will have or will result from
20 World Trade Center exposures. A reasonably strong
21 likelihood that cancer has or will result from
22 World Trade Center exposures, and I have a number
23 of components of an argument that, if I can go
24 through some of those.

25 One is the, the fact that many established human

1 and suspected human carcinogens were documented to
2 be present in the dust, or in the dust or smoke, at
3 that time.

4 Secondly, we know that there were certainly ample
5 exposure to World Trade Center dust and smoke, not
6 so much documented through many of the sampling but
7 documented through both knowledge about what
8 occurred at the site, but also I'm impressed by the
9 magnitude of the nonmalignant disease that's
10 occurred among World Trade Center responders.

11 Third, we heard some information about the
12 relationship between relatively short exposures and
13 cancer. Not saying that all exposures there were
14 short because we know that community exposure
15 probably continued over a number of years. There
16 were in addition some workers who worked outside of
17 the World Trade Center after -- site after it
18 closed in June or July 1st, 2002, but the majority,
19 at least of the workers, had relatively short
20 exposures. Although I'm impressed by if you worked
21 12- to 16-hour shifts, seven days a week for six
22 months, that gives you a year and a half of
23 exposure in a relatively short period of time.
24 Nonetheless, by occupational standards, the
25 exposures were relatively short but we've heard

1 evidence, both from limited human epidemiology but
2 also from animal studies, that short exposures can
3 lead to cancer. That I think's an important part
4 of the rationale.

5 I think Dr. Weaver raised an interesting point that
6 we should explore about steeper exposure rates.
7 Maybe that influences cancer incidence.

8 Another point is about synergy, which is, with so
9 many carcinogens present, the rule in multiple
10 carcinogens, even though it hasn't been thoroughly
11 investigated, is that synergy seems to occur very
12 commonly; and whether that's for PAHs, as Dr.
13 Talaska mentioned, or Dr. Rom mentioned for
14 asbestos, that the interaction when multiple
15 carcinogens are present is the usual case, not the
16 exception.

17 I think another point that Dr. Dement raised is
18 there's no -- current scientific thinking is that
19 there's no safe threshold for the carcinogenic
20 effect in asbestos or for that matter other human
21 carcinogens as well.

22 A further point is that the hallmark of
23 nonmalignant disease among responders and community
24 residents has been inflammation, inflammatory
25 disease in the respiratory tract. And it's pretty

1 well established, and Dr. Aldrich and Dr. Rom know
2 this a lot better than I do, but that inflammation
3 is an underlying mechanism for the development of
4 cancer and that's become an emerging hypothesis but
5 there's a lot of evidence in support of it.

6 Then finally we come to epidemiology. It's limited
7 but I think the firefighter study is a positive
8 study. Positive, I don't mean positive for people
9 who have developed cancer but positive in the sense
10 that it showed an increased risk. It didn't appear
11 to occur accidentally and isn't readily explained,
12 I think, by confounders; it's a modest increase in
13 risk but it is there.

14 So I think when I put it all together, to me, this
15 supports a case in favor of a reasonably strong
16 likelihood that cancer has or will result from WTC
17 exposures.

18 DR. WARD: Thank you, Steve. Leonard, Kimberly, do
19 you know which one of you put --

20 DR. TRASANDE: Sure. I was third. I was third. I
21 think Tom was first.

22 DR. WARD: Okay, good. Thank you, I was taking
23 notes so I wasn't looking up. So which of you was
24 first; do you know?

25 DR. ALDRICH: I guess I was.

1 DR. WARD: Okay.

2 DR. MIDDENDORF: Before you start, I just want to
3 remind everybody, you need to hold the microphone
4 up near your mouth for the entire time you're
5 speaking. Otherwise the transcriptionist can't
6 hear it, and we want to make sure that we capture
7 everything clearly.

8 DR. ALDRICH: I'm sorry, I thought this was on. I
9 was one of many authors of the fire department
10 study. I was not the primary or secondary, I
11 wasn't the senior author, but I do have a good bit
12 of familiarity with that study and although it's a
13 single study and only epidemiology so far, it does
14 have a number of really important strengths: it
15 was a well-controlled study with a known exposure,
16 pretty well-known exposure, with good, maybe not
17 perfect case finding, that means that the numerator
18 was probably pretty close to accurate; and a known
19 total population at risk, which means the
20 denominator is pretty close to accurate; and
21 furthermore it took surveillance bias and a number
22 of other biases well into account. I would like to
23 point out one thing that isn't clear from a cursory
24 reading of that paper, that the cases that were
25 found after 9/11 were not at an earlier stage on

1 average; in fact, the stages were, if anything,
2 slightly later-stage cancers for the post-9/11,
3 which suggests that this was not surveillance bias
4 that took -- that led to the higher level.

5 The finding was that total cancers were increased
6 to a small degree. This is not an epidemic level
7 increase in cancers but it was only seven years
8 post-9/11 that were included in the data so rates
9 may well be higher in future studies. Nonetheless
10 the study was, did show an increase in cancer
11 incidence, and so although it's only a single study
12 and although it's quite preliminary, I think that
13 there is some epidemiology that we should not
14 ignore and so for those reasons I favor including
15 cancers of some types in -- recommending the
16 inclusion of cancers of some types in the health
17 program.

18 DR. WARD: Thanks. Guille?

19 MS. MEJIA: Okay. I'm just going to jump into
20 this. It's my position and my opinion that cancer
21 should be covered. Whether all cancers should be
22 covered, I don't know. You know, that's something
23 that we need to have further discussions on.
24 What do I base this on? Well, it may seem -- my
25 rationale may seem elementary to some, I mean, I'm

1 not a doctor, I am not a scientist, I am not a
2 researcher, but I think it's a conclusion that any
3 reasonable person would reach based on the
4 presentations that we've had for the last three or
5 four days, you know, the beginning in November to
6 today.

7 We know a lot of things. Whether we can put them
8 all together is something that we also have to work
9 out but we know a lot of things. We know that
10 there were lots of substances that were present in
11 the environment and we know that many of these
12 substances are very toxic and many of them are
13 carcinogens.

14 We know how the exposures occurred. People were
15 caught in the cloud and then there were workers who
16 were responding and performing work that was
17 necessary to rescue and eventually restore the
18 area.

19 We know how and why these substances entered the
20 body. I mean, right? We know the routes of entry;
21 there was inhalation hazards. There were no
22 controls in place so that, you know, the workers
23 could not be protected against inhaling some of
24 these substances or ingesting some of these
25 substances or coming into contact with some of

1 these substances.

2 We know that there are effects from these exposures
3 based on the fact that we have workers in the
4 program that have covered conditions. So there are
5 some effects from these exposures. The fact when
6 we're dealing with cancers, at least in the field
7 of workers comp, there is -- there have been cases
8 and causal relationships established between the
9 disease and the work at Ground Zero. So there is
10 some causal relationship there.

11 We know that, aside from many of these substances
12 being classified as carcinogens, many of them are
13 also -- can cause inflammation and can cause
14 irritation that may be a precursor to cancer. All
15 right, at least that's what I heard from the
16 presentations.

17 We know that there are many gaps in the data but we
18 should not hold that, you know, against the worker.
19 It's not their fault that there are no -- that
20 there is not enough data there. You know, they
21 were just out there to respond and to take care of
22 what they needed to take care of.

23 Yesterday we heard a presentation about short
24 exposures to high concentrations of substances,
25 especially in the textile workers. I think that's

1 important to keep in mind, that just a short
2 exposure can lead to cancer. So, you know, we
3 don't need to worry about latency. I mean, the
4 traditional thought about cancer is that there's a
5 latency period involved. I mean, it's like an old
6 married couple. You talk about cancer and you got
7 to talk about latency. In this group they don't
8 have the luxury of time to wait.

9 Just a few other thoughts. Just because the
10 association between the exposure and cancer may not
11 be strong at this time, I don't think that we
12 should dismiss it entirely. I think there's enough
13 out there to make a case for the coverage of
14 cancer.

15 And finally I think that what I need to say is that
16 even though the incidence -- if we deem the
17 incidence of cancer among the population to be
18 improbable due to a lack of studies or any other
19 information, I don't think that it means that it's
20 not plausible. And that's an important point to
21 make. That's it.

22 DR. WARD: Thank you. I think Glenn was next, then
23 Kimberly.

24 DR. TALASKA: Okay. First of all, I would agree
25 that I think that cancer should be covered under --

1 for the first responders, and I think there's
2 several reasons. I think Steve just did a great
3 job of very systematically laying out why, and
4 Guille did, too, why it might be the case.

5 I think some of the arguments against that seemed
6 to be important were that the epidemiological data
7 are not strong enough for causality, and that is an
8 argument that, again, I think, on the other hand
9 the data are starting to show some things. And in
10 the studies that are being done they are trending
11 in a way that is disturbing for an observer.

12 Second, I think the other reason that one might
13 believe that it would not be related is that the
14 data today report that the exposures were
15 relatively small. I think we heard yesterday from
16 John Dement and I provided some evidence that that
17 may in fact not be the case and that there's reason
18 to believe that the exposures were, for the
19 individuals working in the Pile certainly, that the
20 exposures were quite large. And that there are
21 data to support that from some of the biological
22 monitoring that was done, and also the relationship
23 between the personal and the area samples, and the
24 history of that.

25 So I think, and then most importantly I think we've

1 got a soup of carcinogens which are known to affect
2 several sites, specific sites, and these are some
3 of the sites that we're considering. So the
4 materials that were known to be in the cloud and
5 materials that were known to be at Ground Zero have
6 caused disease which people, some people are
7 seeing.

8 And then finally that the interaction between these
9 materials, the soup included materials that were
10 not only carcinogen initiators but were carcinogen
11 promoters, and they tend to complete the package.
12 And some of these materials were those which would
13 tend to persist.

14 I agree with the others on the committee that the
15 exposure apparently, if we have people that are
16 working for six months, working long shifts and
17 double shifts, that in fact that's a significant
18 exposure and a significant time that they were
19 there. In some cases locally extremely high
20 levels, it appears, so I think there's, for those
21 reasons, I would support the inclusion of at least
22 some cancers into the, into our recommendation.

23 DR. WARD: Thank you. Kimberly?

24 MS. FLYNN: I think that some cancers, and I am not
25 expert enough to say which, but I think certainly

1 non-Hodgkin's lymphoma, I will never hear the
2 initials NHL as National Hockey League ever again.
3 This has been a constant refrain but I would
4 certainly go beyond blood cancers. I think that
5 some cancers must be included for the exposed
6 population of responders and survivors.

7 I want to remind anyone who was not present at the
8 November STAC meeting to hear the survivor
9 presentation, to please go back and read that
10 presentation in the record. Survivors were exposed
11 in myriad, myriad ways to World Trade Center dust
12 and smoke, some of the testimony we heard earlier
13 today went to the fact that survivors had, you
14 know, intense dust cloud day-of exposures, they
15 also had ongoing exposures in the area. Many
16 people live and work in the area, as Jo Polett
17 testified, there is World Trade Center
18 contamination -- was World Trade Center
19 contamination present in air handling units in her
20 building. This is the case in many buildings.
21 Everyone here needs to understand that there was no
22 proper testing and clean-up program by the
23 Environmental Protection Agency, the only agency
24 that in fact has the expertise, obligation and
25 capacity to pull off such a program.

1 Fewer than 18 percent of apartment, individual
2 apartments in lower Manhattan below Canal Street,
3 were cleaned by the EPA. And there's a lot of
4 people here who could tell you that in many ways
5 that clean-up was flawed and inadequate. So, you
6 know, when a cancer is added for responders, it's
7 added for survivors under Zadroga for that reason
8 and also for the reasons that survivors do not have
9 a monitoring program.

10 Responders have a monitoring program. You
11 qualified for that program if you were exposed.
12 Survivors had a treatment program which became
13 widely available to them in the year 2006, very,
14 very late in the game. Lots and lots of survivors
15 went elsewhere, saw private doctors. That is one
16 of the reasons why the denominator, the number of
17 patients in the survivor program is, you know, a
18 little over, well is probably closer, actually at
19 this point, to 6,000.

20 But shifting on to some of the testimony that we
21 heard today and also a repeated refrain, which I
22 think is very, very important, that the events were
23 unprecedented, that the exposures were
24 unprecedented. And I guess I want to challenge all
25 of the experts on this panel to really very

1 carefully think through what that means in terms of
2 constructing a robust rationale for cancers to be
3 added. And I think that actually that
4 Dr. Markowitz and Dr. Weaver have started doing
5 that.

6 So unprecedented means that you are exposed to a
7 host of toxic materials which are simultaneously
8 carcinogenic, mutagenic, materials that
9 simultaneously attack the nervous system, the
10 immune system, the endocrine system; and that for
11 many, many people these contaminants, their
12 exposure to these contaminants, was in the form of
13 an absolutely unprecedented assault. I had
14 firefighters tell me that being in the vicinity,
15 being on the site, when those buildings collapsed
16 was like having somebody pull your head back, open
17 your mouth and, like, load in, you know, three
18 bottles of talcum powder, you know, at 150 miles an
19 hour traveling into your mouth and overwhelming
20 your airway, overwhelming your body systems and I'm
21 not excluding cops, who we know were exposed and
22 had no respirators. We know so many people had no
23 protection whatsoever, but I'm saying that the
24 insult to the body was absolutely unprecedented.
25 I'm saying also that these insults happen in ways

1 that we know about because we saw them on
2 television and they happened in ways that we don't
3 know about, so I'm talking about, you know, as
4 Dr. Weaver said yesterday, the toddler crawling on
5 a contaminated carpet, the kids who were jumping up
6 and down on a contaminated sofa. I mean, these
7 things happened all over lower Manhattan and in
8 fact we really do not have any idea whether or not
9 there are still people living and working in the
10 area who are subject to ongoing exposures from the
11 fact that, for instance, the air handling units
12 were never properly cleaned.

13 The other piece of this unprecedented -- so you
14 have unprecedented exposures, you have
15 unprecedented, you know, unfathomable exposure
16 scenarios, some of which are ongoing, and likely
17 ongoing, it's reasonable to assume that, and you
18 also have this sort of new kinds of illness. So
19 the medical director for the survivor program,
20 Dr. Joan Reibman, has said many times -- I think
21 she's also testified to this in Congress -- that
22 we're treating it, we're treating World Trade
23 Center asthma like regular asthma but really we
24 don't know what it is. So there are ways in which
25 the disease process and there are ways in which the

1 kind of the end point illness is WTC-specific, and
2 I think that's also something that the experts here
3 really need to take into account.

4 What are all of the ways in which these
5 unprecedented exposures may be shortening latency
6 times? What are the ways -- I mean, I thought the
7 idea that Dr. Weaver had, that we're looking at the
8 possible impact of steepness of exposures. What
9 are the ways in which we're seeing people who
10 should not be getting multiple myeloma showing up
11 with multiple myeloma in their early and mid-40s?
12 What about these rare cancers that we're hearing
13 about?

14 And I guess when we start to look at the
15 epidemiological record, I would have to remind
16 everyone here about Micki Siegel de Hernandez's
17 testimony and the degree to which what we currently
18 have by way of, you know, denominators and
19 numerators is a partial perspective.

20 There are so many people out in the country right
21 now who are not, whose cancers are not being
22 counted in the monitoring program, whose cancers
23 are not eligible for the World Trade Center health
24 registry or maybe they didn't even know that the
25 World Trade Center health registry existed. So

1 there are all of those people out there and some of
2 them actually managed to make it in here and talk
3 to us.

4 So I think that we, you know, we understand, you
5 know, I think that the FDNY study was very well
6 designed and I'm very glad to hear Dr. Aldrich say
7 that, you know, he considers it to be strong,
8 strong epidemiological evidence, and as a non-
9 expert, I wholeheartedly agree. I understand also
10 that the FDNY needed to take certain steps to be
11 able to say that look, we're controlling for
12 surveillance bias. I understand that but we also
13 need to consider, as Micki said, the numbers of
14 people who are not being surveilled at all.

15 And I think that we have to base our considerations
16 -- and it's very, very reasonable for us to make
17 sure that we are not allowing this, this population
18 to essentially fall into a data gap that was not
19 created by them and that is not their fault and I
20 think that we owe everyone, survivors as well as
21 responders, deliberation here that looks at the
22 available data in the context of unprecedented.

23 DR. WARD: Thank you, and I've tried to now make a
24 list of tent cards 'cause we have so many of them
25 it's hard to follow, but I think the order was

1 Bill, Leonardo, Julia, Valerie, Susan and
2 Catherine? So Bill.

3 DR. ROM: Thank you. First of all I think I would
4 like to start off by seconding Steve's list of
5 exposures. I do make the case that WTC dust and
6 responders have a risk for cancer. The exposures
7 included carcinogens, there were multiple
8 carcinogens, there was broad exposure in the short
9 term, and all of these increased the risk and these
10 people will develop increased numbers of cancers.
11 Second of all, the issue of lumping or splitting,
12 do we just say cancer or do we say specific
13 cancers? I think the Zadroga Act answers that
14 question. It doesn't just say lung disease, it
15 lists lung diseases. So if you look through the
16 list and you look for sarcoidosis as a specific
17 lung disease, you don't find it. And the Zadroga
18 Act did do a little bit of lumping and took
19 sarcoidosis and put it under interstitial lung
20 disease, which probably has a few diseases that may
21 not be associated, so I guess we can do a little
22 bit of lumping.

23 So going on to the specific diseases, I think
24 lymphoma, leukemia and multiple myeloma already are
25 being seen. And even with such a short latency

1 these cancers are coming up and we should probably
2 list them. But then you get to splitting again and
3 lymphoma has non-Hodgkin's and Hodgkin's. And you
4 look through the firefighter paper and
5 non-Hodgkin's is significant but Hodgkin's is not.
6 And then if you look at leukemias, ALL occurs in
7 children and CLL in older patients. It may not
8 have much of a biological plausibility for
9 environmental exposures so I'll take a pass on
10 those, leave it as a lumping.

11 And then there's two big sites that are -- need to
12 be addressed, and they're the major sites on the
13 list you put on the board and that's lung, and then
14 some other sites that came up positive in the epi
15 studies. So for lung I'll start with that. That
16 did not come up in the firefighter study and it did
17 not come up in Phil Landrigan's line about the Mt.
18 Sinai study of the responders. But I think lung is
19 very biologically plausible, and we have the
20 carcinogens and we are going to see lung cancer,
21 and I think these people should be evaluated and
22 should get support. And I would expand the lung to
23 also include mesothelioma, even though we're
24 violating our rule of latency on both of them as we
25 don't have 20 years you need for lung cancer and 35

1 to 40 years for mesothelioma. I just don't think
2 we can wait that long for proof.

3 And then there's three sites that popped up that I
4 don't think there's any biological plausibility at
5 all, and they're thyroid and prostate and some
6 sites in the GI track. So these popped up in the
7 firefighter study and Phil Landrigan's mention of
8 the responder study. So I have difficulty in
9 supporting sites that just don't have any
10 biological plausibility for environmental exposure,
11 WTC dust or otherwise. It just doesn't make any
12 sense. That's too, that's a bit of a leap. And we
13 have to provide the science to the administrator
14 and we can't provide any science on those, other
15 than data from these epi studies that probably
16 represent surveillance bias and other confounding
17 reasons they came up. And maybe the committee can
18 address these further. Thanks.

19 DR. WARD: Thank you. Leonardo?

20 DR. TRASANDE: Thank you. I want to begin by
21 supporting Steve and others' lines of argument and
22 state my opinion that cancer should be included as
23 a covered condition, leaving pending the second
24 component of the discussion.

25 I wanted to add roughly five points that I think

1 represent issues that have been glancingly
2 addressed so far but I think are very important.
3 One is that our legal direction, as I understand it
4 from the Zadroga bill, is not to distinguish
5 subpopulations, and my understanding is that we're
6 still always relying on a clinician judgment once a
7 condition is added to the bill for -- that is
8 required in order to result in having a patient
9 have care supported by the Zadroga fund.
10 And also my second point is that community
11 exposures were highly variable in this context and
12 likely overlapped in ranges of exposure with
13 exposures experienced by many of the responders,
14 and I think that's important to highlight and I
15 think, much as we try to characterize those
16 exposures with questionnaires and other methods, it
17 may be impossible to really tease that apart very
18 carefully. And I'm hearing a theme of well, we
19 know in responders there's more plausibility for
20 responders but I think there's a very large gray
21 area here that we need to accept. And I think
22 there's quite a lot of plausibility for community
23 exposures leading to cancer in this population as
24 well.
25 I wouldn't be here if I didn't raise a point about

1 pediatric and perinatal vulnerability. That raises
2 additional and worrisome concerns in what are
3 likely less exposed populations. So that's my
4 third comment, and I think the literature on that
5 vulnerability is ample, I don't think I need to
6 review it here.

7 I want to keep my comments brief and just proceed
8 to my fourth point, which is that there -- we've
9 talked about statistical capacity of the fire --
10 the department study of the responder study that
11 was presented yesterday, there's extremely limited
12 statistical power that exists, even if you use the
13 whole 46,000 children who lived below 14th Street
14 on September 11, 2001. That nearly eliminates the
15 possibility of a definitive negative study in that
16 population. And so I think I want to caution,
17 voice my caution, that we will need to rely on
18 plausibility and reasoning by analogy for pediatric
19 and perinatal exposures and their association with
20 cancers that may have even latency in the range of
21 a 30- to 40-year range, given the uncharted waters
22 that we're in. And though I would say it's worthy
23 of further study and I'll leave that point there.
24 Following up on Bill's point, my fifth point is
25 going to signal a concern I have about splitting

1 cancers by category, and that's especially keen for
2 the pediatric population. While I agree there are
3 certain cancers that predominate and you would
4 expect increases in patterns to emerge if they were
5 to emerge for ALL and other conditions, and I agree
6 with Bill's points that there are some concerns
7 about plausibility. I am concerned that we are in,
8 in an uncharted territory and may have to err on
9 the side of biological plausibility as being the
10 momenarm (ph) for our decision, and so I just would
11 also raise further cautions when we're splitting on
12 the basis of adult responder data. And my concern
13 being that there will not be very good
14 applicability of that coverage to a population that
15 may have been affected at an earlier stage of life.
16 Thank you.

17 DR. WARD: Okay. Julia?

18 DR. QUINT: First I do agree that cancer should be
19 included as a covered condition for many of the
20 reasons that Dr. Markowitz -- and I will third his
21 notion of why. Lots of carcinogens, many -- some
22 human carcinogens, lots of animal carcinogens, and
23 I want to say something about that in particular.
24 We seem to be -- when we act as government agencies
25 to protect workers and public health, we try to

1 protect both populations from chemicals that have
2 been identified as carcinogens based on animal
3 data, and we do that by implementing regulations
4 and policies. One of the commenters yesterday said
5 that if he were under OSHA jurisdiction and were
6 constructing a building and had to use many of the
7 carcinogens that have been identified in the WTC
8 dust and smoke, that, you know, he would have to
9 use certain controls because we do believe that
10 those cancers that are found in animals can cause
11 cancer in humans. So that, you know, I think it's
12 a false distinction on the public health side and
13 the prevention side, when we have laws and
14 regulations, to say that those are, those chemicals
15 can cause cancer in humans on one side and then
16 when we end up seeing a number of cancers, that,
17 you know, we have a different rule for the covered
18 conditions. You know, and in that the agencies
19 which are tasked with identifying evidence of
20 whether or not chemicals cause cancer, the National
21 Toxicology Program and the International Agency for
22 Research on Cancer are now classifying agents as
23 human carcinogens based on mechanistic data in
24 addition to epidemiological data and animal
25 bioassay data; and in fact, benzo alpha pyrene was

1 classified as a human carcinogen, is one of the WTC
2 agents, is now classified as a human carcinogen by
3 IARC where it wasn't before, and this is based on
4 mechanistic data.

5 And in addition IARC has published a review in
6 which they have identified 11 sites of cancer for
7 which there is sufficient human evidence, and some
8 of the -- for those 11 sites, WTC agents are
9 implicated; in other words, if you look at, I don't
10 know how many of the different agents, but asbestos
11 for instance, they have said that there is
12 sufficient evidence of human cancer for cancer of
13 the ovary for asbestos.

14 So I think we should definitely look at that IARC
15 review in terms of the cancers that they have had -
16 - have deemed as sufficient evidence of human
17 cancer for the agents that were in the WTC dust and
18 smoke. It seems very pertinent. They're a very
19 prestigious group. But they are looking at lots of
20 data. It's reviewed by a huge panel of people, and
21 I don't think we need to repeat that review.

22 Again, you know, we talked about exposure. We
23 don't have a lot of exposure data but we do have --
24 we operate on this premise, again, on the
25 prevention side that if chemicals are genotoxic

1 there's no safe exposure level. Many of these
2 chemicals, most of them are genotoxic. And even
3 for the ones that may be operating by an epigenetic
4 mechanism, we have individual variability in terms
5 of the exposed populations, both survivors and
6 responders and the whole gamut of people who were
7 exposed, and we have different background
8 exposures. And one of the ways in which this can
9 play out is that some people have a very different
10 ability to metabolize chemicals, toxic chemicals,
11 to make them nontoxic, so that will contribute
12 disproportionately to their risk for cancer. And
13 we don't know a lot about that.

14 The other thing is we don't know how large the
15 number is of people who may have developed cancer
16 from these exposures because we don't have
17 sufficient surveillance systems to pick them up.
18 So I think that, you know, all of this is a
19 developing science. The mechanistic data is
20 developing as we speak. A lot of the cancers that
21 are not deemed to be human carcinogens today will
22 be in the future. So I personally have a very hard
23 time.

24 Some cancers we have more evidence for. I would
25 definitely go with the list of cancers that have

1 been shown in epi studies where there is an
2 increased risk, and definitely the ones that IARC
3 has associated with some of the agents that we know
4 were in the dust and smoke. But beyond that we
5 don't know which cancers in humans will be caused
6 by the chemicals that cause cancer in animals
7 because they aren't concordant. And so I think
8 that that raises the possibility that some of these
9 cancers that we don't think -- that we don't have
10 evidence for now, we might have evidence for in the
11 future based on mechanistic data, and I have a very
12 hard time leaving, you know, saying that cancers
13 that -- for which we don't have human data right
14 now and don't have strong biological plausibility
15 may not be covered. That's my dilemma with all of
16 this.

17 DR. WARD: Valerie.

18 MS. DABAS: I also looked at the IARC report and I
19 found several things. One of them was ovary cancer
20 linked to asbestos as well as larynx, colorectum,
21 stomach. They also identified beryllium now as a
22 human carcinogen and found that there was
23 significant epidemiological studies that indicate a
24 high risk of lung cancer in occupational group.
25 Cadmium also had carcinogenic levels. On page 80

1 it identified prostate cancer as one of the things
2 that it was -- that it linked to it. Urinary and
3 kidney cancer were amongst the ones that they
4 found. They identified lead and that it increased
5 the risk of lung cancer, stomach cancer, urinary
6 bladder cancer. When they looked at PCBs and they
7 found Hodgkin's lymphoma in one study dated 1996 as
8 one of the risks of being exposed to lead.

9 Again, quoting from them, as in the studies
10 reviewed by IARC, instead of risk of liver or bile
11 duct cancers were reported in several cohorts and
12 follow-up studies of capacity workers. One case
13 control study also reported increased risk of bile
14 duct cancer. They listed several others such as
15 tissue sites such as gastrointestinal tract, brain,
16 testes or skin.

17 When they looked at PNAs, they listed in animals
18 that they found PNAs cause numerous types of
19 cancers in animals including lung tumors, liver
20 cancers, skin tumors, urinary bladder cancer,
21 forestomach tumors, esophageal tumors, intestinal
22 tumors, mammary gland tumors, nose tumors, larynx,
23 pharynx, lymphoma, tongue tumors, anus tumors,
24 cervix tumors, abdominal tumors, tumors of the
25 blood vessels, kidney cancer, respiratory system

1 cancer, ovarian tumors, cancers of the oral cavity
2 and cancer at the injection site sarcoma.

3 So when we looked at that report we found that
4 there was significant evidence and they had
5 significant epidemiological studies to back their
6 evidence in their 2011 report. I think it would be
7 very dangerous if we start picking apart cancers,
8 specifically for the person that came in today that
9 had a very rare cancer. You know, what do we do
10 with that person? Do they stay out for the entire
11 time while they figure out whether his cancer
12 specifically is linked to the World Trade Center
13 exposures or what? And those people are the ones
14 that are going to get drugs that are not covered by
15 their health insurance. People with very rare
16 cancers are under -- you know, they more than
17 likely will not have drugs that, you know, are
18 covered by their insurance.

19 You know, I had one guy, Bill Ferrell, who spoke to
20 me, and he has a very rare cancer of the pancreas
21 and his drug is a test. And so it's \$12,000 per
22 month and it is not covered under his health
23 insurance. So I think if we start picking cancers
24 apart, we're going to leave the people that are
25 most needy out to dry.

1 DR. WARD: Thank you. Susan?

2 MS. SIDEL: Thank you. I of course definitely
3 think that cancer should be included and I think
4 that, to make a case for this scientifically, I
5 think that we're in fairly good shape because I
6 think that one of the big things that has come out
7 of this is that so much of the information we have
8 is not like, it's not working in real time.

9 Because even any of the studies that have been
10 done, including the one that isn't even out yet, is
11 already old. By the time they compile the people
12 that have cancer and then match that against the
13 New York state registry, which is two years behind,
14 and then they have to submit it for publication.
15 And then I'm sure the publication period, you know,
16 that takes awhile because you might get rejected;
17 you have to go some place else, and then your
18 article has revisions, so anything that we can work
19 with in real time is going to be way too old for it
20 to be, to help people today.

21 The other thing that I'm very concerned about is
22 that our committee and in fact the entire World
23 Trade Center health program is over like 15 years
24 from 9/11, right? There's, like, a statutory end
25 to this. And that is when we're going to see --

1 that is when we are going to have the latency
2 period for a lot of cancers come up, so if we did
3 rely on epidemiological studies, we're not going to
4 have them until we can't do anything with them.
5 And that is really, really hard, you know, that is
6 a shame.

7 I think that there's a lot of information in the
8 articles we do have. On page 904 of the fire
9 department, Dr. Prezant article, in the first
10 paragraph, I mean, the first column, I think it's
11 the second paragraph, where he's talking about
12 inflammation and how other diseases of inflammation
13 that are affecting survivors and responders are the
14 diseases that are covered, so that's like a big
15 lead-in to what kind of cancers should -- you know,
16 if you follow the same thinking, the same track, I
17 think it's going to just naturally take you to
18 covering certain cancers.

19 And then the other thing is that we have a lot of
20 information that's just old established science on
21 what carcinogens cause when people are exposed to
22 them. And I think that it's out there, it's old
23 established science and that we can just compile
24 things based on that evidence. Thanks.

25 DR. WARD: Thank you, so what we're going to do is

1 take the final comments, like, from Catherine and
2 Bob and then we'll take a break for lunch.

3 MS. HUGHES: Hi. As I think the only local mom on
4 this committee, I just wanted to provide a little
5 insight 'cause I had two young boys on
6 September 11th. And people talked about exterior
7 clean-up. Well, one of the problems was the EPA
8 was supposed to be in charge of the internal
9 clean-up on spaces and then the DEP was responsible
10 for the outside.

11 And every part of it was a process and we've heard
12 about whether it's worked or it hasn't worked. But
13 for example, finally the DEP did get around to
14 requiring that roofs of buildings had to be
15 cleaned. For a very long time roofs were never
16 cleaned. And facades of buildings were hosed down,
17 if they were cleaned, for months or up to over a
18 year. So in the summer of 2006, if I hadn't
19 reported into the DEP clean-up, the newspaper stand
20 one block from the World Trade Center site, then
21 the little top of that stand would never have been
22 cleaned. They found six bags of World Trade Center
23 debris over a year later on the roof of the
24 newsstand. And a lot of people walk in that area.
25 When I had my son's birthday in October of 2002,

1 which was over a year, in the dark, I see a guy in
2 a white tie-back suit with rubber boots, bolted
3 onto the roof, doing an asbestos or EPA, you know,
4 exterior clean-up. So I just want to remind people
5 about the inconsistencies of exposures, and they
6 were ongoing for the community as well.

7 I agree with a lot of what our medical experts have
8 said here and, you know, that Dr. Markowitz had
9 kicked off, and if we could also look at cancers so
10 we're looking at systems rather than just picking
11 one. Because that rare cancer we heard about, I'm
12 not a doctor but it could have been related to
13 dioxin exposures or from the dielectric fluid, I
14 believe, 'cause I happened to be researching it the
15 other day, but he should not be left. So if we're
16 looking at systems, so it could be that you were
17 exposed through the skin, so look at the skin as a
18 holistic mechanism, look at the inhalation and the
19 ingestion, so that's how we can start looking at
20 the cancers. Thank you.

21 DR. WARD: Thank you. Bob?

22 DR. HARRISON: I agree, yes. I think everybody --
23 I've just been taking notes. So I'm a yes also in
24 terms of the general inclusion of cancer but I had
25 just -- I would add just a few other points.

1 I think there's some interesting evidence in terms
2 of short-term exposure to benzene and hematopoietic
3 malignancies that could be cited as evidence. As
4 has been said, this is a relatively short-term
5 exposure but there's some -- quite a bit of data, I
6 think, is emerging on low-dose and/or intermittent
7 exposures to benzene that could provide some, you
8 know, additional biological bases to argue that
9 there's scientific evidence to make a
10 recommendation.

11 I would like to see somehow mention of certain
12 premalignant hematopoietic disorders. The
13 healthcare providers may see somebody with aplastic
14 anemia, there's a premyeloma condition, there's
15 myelodysplasia, there's number of blood disorders
16 that, followed long enough, will lead to malignancy
17 without the diagnosis yet of AML or multiple
18 myeloma. So somehow I'd like to get across that,
19 so it doesn't hamstring the healthcare provider in
20 not being able to provide treatment for those
21 conditions. Sometimes it's just monitoring.

22 Third is I think we should acknowledge that cancer
23 is multifactorial, that there are individuals who
24 develop cancer from multiple risk factors both
25 environmental, occupational and personal. I think

1 it's important to acknowledge, for credibility
2 actually, that cancer is multifactorial, that not
3 all cancer is the same, that we're going to have
4 individuals who are eligible for treatment and
5 compensation who have smoked for 40-pack years, who
6 have dietary risks, who have genetic risk factors,
7 and that to the casual reader I think it's not
8 necessarily intuitive that -- or how three months
9 of exposure is responsible for their cancer when
10 they might have multiple other risk factors that
11 seemingly are even more important.

12 This is a problem I face all the time with my
13 patients who have occupational or environmental
14 exposures, and so I would suggest adding something
15 along the lines of, I think to echo what
16 Dr. Markowitz says, that citing the abundant
17 medical and scientific literature that acknowledges
18 that environmental and occupational exposures are
19 an important cause of cancer, that the exposures
20 from the World Trade Center are likely to be a
21 significant factor, or if you'd like, a substantial
22 factor, in causing certain cancer types. So this
23 really acknowledges that cancer is multifactorial
24 but the contribution of the World Trade Center is a
25 significant factor.

1 I think that might help the clinician, frankly, in
2 the second phase, where each of the diseases must
3 be certified. I think that would give them clear
4 guidance and might give NIOSH some context in which
5 to understand a specific case.

6 My last point is childhood cancers, and Dr. Rom
7 mentioned ALL, which although I would like further
8 discussion whether ALL should be included for
9 adults, what about the child, you know, in the
10 community who's diagnosed by a pediatrician, who's
11 eligible and who has ALL? Should we not include
12 that as a covered condition as one of the most
13 common causes of childhood cancer? So I just want
14 to make sure that we address that issue in some
15 way.

16 MS. HUGHES: So can I make one point of
17 clarification? I actually, I was actually looking
18 at the New York State Data Registry from 2008.
19 That was online, and, you know, it's four years
20 later, and just did a really preliminary,
21 nonscientific report and broke it down by ZIP code,
22 and it turned out, just for lung and bronchial
23 cancer for the years 2002 and 2006, you know, I
24 haven't verified this, but if you look for the
25 breakdown, there was an increase between 15 to

1 49 percent of above expected cancer rate for the
2 ZIP code 10282. In ZIP code 10007 within
3 15 percent expected, within the ZIP code 10038,
4 which is east of the World Trade Center site, 15 to
5 49 percent increased, more in the financial area,
6 ZIP code 10005, very sparse data, and then in ZIP
7 code 10280, you know, there was again some lung
8 cancer, but this is just very preliminary so it's,
9 you know, just something to think about. Thank
10 you.

11 DR. WARD: Thank you. So we will break for lunch.
12 We're back on schedule so we'll reconvene at 12:45.
13 (Recess for lunch, 12:02 p.m. to 1:04 p.m.)

14 DR. WARD: Would the committee members please take
15 their seats so we can get started? Okay, if
16 everybody would take their seats so we can see
17 who's here and who's not here. So we're still
18 short a few committee members, Paul.

19 DR. MIDDENDORF: Yeah, we do have a quorum, though.

20 DR. WARD: Okay, so we do have a quorum, and what
21 we're planning to do is really resume where we left
22 off and have all the committee members who haven't
23 spoken on the main issue have an opportunity to
24 speak, and then move onto the next phase of the
25 discussion. So Steve, would you like to start?

1 MR. CASSIDY: Yeah. Thank you. You know, I want
2 to start off by saying that I too support that
3 cancers be included. I think the discussion of how
4 we decide if we limit which cancers are covered or
5 we try to eliminate certain cancers and say they
6 shouldn't be covered is difficult.

7 When I look back at what was said yesterday, some
8 of the testimony, I thought that it was very
9 interesting, the presentation that Dr. Rom made
10 about burnt particulate matter and how particulate
11 matter clearly causes cancers and that burnt
12 particulate matter was something he really hadn't
13 experienced before. And we didn't have any real
14 comparisons to that. And I think, you know, when
15 you add that to what Dr. Talaska testified to about
16 the exposure, about the pyrenes, about how the
17 exposure was clearly greater than was measured,
18 when you look at what the testimony from Dr. Dement
19 about the asbestos and just about how much was in
20 the air in terms of the concrete dust, I think it's
21 just clear that this episode was something that is
22 not comparable to anything in the past.

23 You know, I will point to something outside of the
24 scientific things and think about what the New York
25 City fire chiefs, the most experienced people in

1 the world, did that day; they never thought those
2 two buildings were coming down. The reason they
3 never thought they were coming down was because
4 they weren't supposed to come down. They are
5 fireproof, high-rise buildings. We have fought
6 thousands and thousands of fires in high-rise,
7 fireproof buildings. So they did not believe that
8 they would come down maybe at all and certainly not
9 early.

10 When they came down, then you look back and say
11 well, what was different? Well, what was different
12 was two planes crashed into them at 600 miles an
13 hour, jet fuel, all the things that we had never
14 experienced. And I think that highlights for us on
15 the committee that what we're dealing with, now in
16 terms of trying to analyze the data and the cancers
17 that have popped up, and we're doing it with only a
18 short period of time, Dr. Prezant's study, the fire
19 department study's only seven years; that when you
20 look at that, you have to do it in the context that
21 this is probably a once in a lifetime occurrence.
22 It's certainly nothing to compare to.

23 Uncomparable. There's nothing like it so I think
24 when we decide on cancers, I think the consensus is
25 yes, cancers have to be covered. You know, right

1 now I would say I'm leaning toward saying that it's
2 impossible, or very, very difficult, to say we
3 should eliminate these cancers from the list or
4 that we can, as we heard testimony from people here
5 this morning who have incredibly rare cancers, how
6 do you say well, we don't have any data that proves
7 that that rare cancer is likely to happen and
8 therefore you're out. I don't know how we do that;
9 and I think there is enough scientific data that
10 suggests that this exposure that people suffered
11 was unlike any other one and because of that, I
12 think that we could make an argument that maybe we
13 should just include all cancers.

14 But I certainly believe that, you know, we're going
15 in the right direction. I think cancers have to be
16 covered. And I'm open to further discussion about
17 how we do that but I want to do it in the context
18 of reminding everyone that I think that the data
19 shows and the testimony that we've had and the
20 doctors who have made presentations to us are
21 highlighting that the exposures that everybody
22 faced that went down there are unique and
23 significant and unlike probably anything else
24 anybody has ever faced, and I think that's why
25 we're facing such unique problems at this point in

1 time. Thank you.

2 DR. WARD: Carol?

3 DR. NORTH: Thank you. I'll just be brief because
4 it's been said. I'm in agreement with the other
5 folks around the room that it seems appropriate to
6 include cancers.

7 I do want to say that we've heard a number of
8 really moving and compelling testimonials that help
9 bring a face to the diseases and the suffering,
10 which has been a good thing. But I want to say
11 that I make every effort to base my decision on
12 science and I think we have good evidence in
13 science both in the epidemiology and the biological
14 plausibility of the known exposures that several of
15 the other experts in the room have summarized very
16 well. But that evidence leads me to believe that
17 there is a substantial likelihood of excessive
18 occurrence of cancers without sufficient compelling
19 arguments of other explanations.

20 DR. WARD: Thank you. So I think we've heard from
21 everyone on the committee. Virginia and John, are
22 you still there?

23 DR. DEMENT: Yes, I'm still here.

24 DR. WARD: Thank you. And I think Virginia may
25 have left for her class. So essentially what I

1 heard pretty much, well, from every member of the
2 committee is that they think cancer should be
3 included, that there's a substantial likelihood of
4 excess risk. I think many people made very, you
5 know, compelling and convincing arguments of that.
6 So the issue -- so that issue seems to be everyone
7 has a common opinion on that.

8 I think the question then is between the decision
9 to include all cancers and several people have
10 spoken to, you know, to the fact that it's
11 difficult to decide which cancers to exclude or
12 that it's not appropriate to exclude any cancers.
13 Other people have spoken to the idea that some
14 cancers are much more likely than others and so we
15 should try to designate certain cancers or organ
16 systems as on the list and not necessarily include
17 all cancers.

18 So my personal opinion, just I realize I haven't
19 said it, is I'm in full agreement with everyone who
20 said that cancer should be listed, and I still have
21 some questions in my own mind about all cancers or
22 selected cancers. And the one piece of information
23 that is in my mind, and I know everyone's aware of
24 it, but I think that one of the things that's
25 difficult for me is knowing that, over a lifetime,

1 up to half of men and a third of women will get
2 cancer. So even if the World Trade Center exposed
3 populations had not had these exposures, you would
4 expect a large number of people to get cancer. And
5 so that's one of the things that's in my mind that
6 makes it a little bit more difficult to decide if
7 we should list all cancers or selected cancers, but
8 I do agree with some of those arguments that we
9 know something but we don't know everything, and so
10 yes, it's possible to say well, if it's a cancer
11 that's caused by asbestos, then it would -- there
12 would be a very clear rationale for including it or
13 if there's a cancer in a site where we've seen
14 chronic irritation and inflammation, there's a
15 clear rationale.

16 But, you know, again, I see the opposite, I mean, I
17 see the other side as well that it's, you know,
18 it's hard to exclude any cancers 'cause we really
19 don't have a full set of information to make strong
20 decisions about exclusion, so with that I'd like to
21 leave the floor open to people who have opinions
22 one way or the other on the issue of listing all or
23 listing selected cancers.

24 DR. ALDRICH: I guess others have made this point
25 but I think it bears repeating that other

1 conditions that are covered under the bill,
2 certainly bronchitis and asthma, PTSD and GERD,
3 they all occur in many, many people absent World
4 Trade Center exposure and yet they're covered.
5 Nonetheless I think you make a good point that
6 there is no way to know the exact causation or
7 whether somebody who has a cancer was destined to
8 get it in the absence of World Trade Center, but we
9 have to work with what we have.

10 DR. HARRISON: Oh, I'm sorry. I think that there
11 are some cancers for which the biological
12 plausibility, the tox, the animal, the mechanistic,
13 the human data are stronger for a connection and
14 other cancers for which it's weaker or absent, and
15 that I would like to see our committee make a
16 recommendation that reflects the variety or the
17 spectrum of evidence with some suggestion, and I'm
18 not sure of the language with which to phrase this,
19 but some suggestion that the evidence is stronger
20 or that we see evidence for certain types of cancer
21 that's greater than other types of cancer, and
22 maybe not make a definitive recommendation on which
23 absolutely to cover; in other words, transmit that
24 notion, but I don't want to be so crass as to punt
25 it back to Dr. Howard to make a final

1 determination.

2 The alternative would be to specify and to spell
3 out very distinctly and create a list. I guess I
4 don't personally feel like we either have the time
5 or the charge as a committee to review the kinds of
6 evidence in the detail that we need to really
7 create such a specific list.

8 DR. WARD: Okay, any other comments on this?

9 Steve? Sorry, Susan.

10 MS. SIDEL: Hi, I was just wondering if --

11 DR. MIDDENDORF: Before you start, could I do one
12 thing? The reason we have the buzzing is because
13 the microphones have to be turned up to make sure
14 that you can be heard. If everybody will make sure
15 that they put the microphone right in front of
16 their face for the entire time they're talking, we
17 can turn that down and hopefully get rid of the
18 buzz.

19 MS. SIDEL: Okay, how's that? Thank you. You
20 know, I was wondering from a practical perspective
21 how specific we have to be because if we say cancer
22 then -- and maybe some other people can help with
23 what the process is, but then your doctor, I'm
24 assuming your World Trade Center doctor, has to say
25 that you have a World Trade Center-related cancer.

1 Then he's going to send that to the feds, they're
2 going to certify it. Then you're going to have a
3 fight with workers comp or whoever is going to pay
4 for part of whatever. So there's a whole process
5 that's involved.

6 So maybe we can lay out some guidelines and say
7 there's certain cancers that are well-known to be
8 associated with the carcinogens that were at the
9 site and here's some of those, but that we're
10 leaving it open. So therefore if your doctor can
11 make a biological plausibility argument.

12 But then I'm also wondering is that in the course
13 of that like what if, you know, do you have your
14 occupational medicine doctor do that, do you have
15 your oncologist do that? Who does that? So that's
16 another thing that's out there. But I'm just
17 wondering like in the real world how specific this
18 is going to have to be at this point.

19 DR. WARD: Steven, then Kimberly.

20 DR. MARKOWITZ: So just to answer Susan's specific
21 question, in the real world, the World Trade Center
22 health program has many doctors who are not even
23 trained in occupational medicine, and certainly not
24 in oncology, and will be looking for a lot of
25 guidance on what's related to the World Trade

1 Center or not in terms of particular cancers.

2 Whatever they decide then has to be reviewed by
3 NIOSH which has already asked us for guidance from
4 this committee. The more we comment on this
5 probably the better off everybody is.

6 When I think about this issue I think, well, we
7 should rely, there are various approaches. One way
8 is to think that to rely primarily on epidemiology
9 'cause after all that's, you know, that's the human
10 outcome. The problem with that of course is that
11 we have one epi study, we have the Mt. Sinai study
12 which we don't have because all we have is a
13 one-liner on that so we can't really say anything
14 about that. But whatever we say, you know, the
15 Sinai study will be available in a couple of months
16 and we have to leave open to whatever new findings
17 they may have. But if we were to rely on the
18 epidemiology, specifically the firefighter study,
19 the cancers we would come up with are thyroid,
20 non-Hodgkin's lymphoma, maybe colon, maybe stomach
21 and melanoma. That's the list and I may be, you
22 know, overlooking one or two, depending how you
23 interpret the numbers actually, but that's the --
24 that would be the list.

25 An alternative approach would be, I think what has

1 been discussed, which is it look at the roots of
2 exposure and biological plausibility and look at
3 where the nonmalignant disease is occurring among
4 WTC survivors and responders, and then we'd look
5 very much at respiratory cancers, upper respiratory
6 cancers; we'd look at head and neck, pharyngeal,
7 nasal, sinus cancers, laryngeal cancers. And the
8 esophageal cancer because we know that reflux is
9 increased among responders, and maybe skin cancer
10 because all those PAHs got on people's skin when
11 they worked down there. And that list, actually
12 that list is virtually completely different from
13 the list that you construct from the firefighters'
14 study from the available epidemiology which is an
15 odd problem.

16 Another approach would be, and I think this is kind
17 of the broadest approach, is to look at the total
18 list of chemicals that NIOSH in their first report
19 on carcinogens listed as being of concern, it's in
20 Appendix E or Appendix D of that report, and there
21 are 287 chemicals. And I counted the number of
22 IARC carcinogens, it's either A, or one or two
23 carcinogens, but one is definite, two is -- 2A, 2B
24 are possible, probable, and there are about 70
25 carcinogens on that list. So you could take that

1 list of 70, and IARC has nicely spent the last few
2 years updating that list and specific sites
3 attached to that list, and then you can match up
4 that list with those sites, including the
5 sufficient evidence and the limited evidence, and
6 you'd come up with a big universe of cancers that
7 are plausibly related to what I told you has
8 occurred down there.

9 There would probably still be some exceptions. It
10 wouldn't include all cancers. I'm not sure that
11 everything down -- if you match that up, which I
12 haven't done, there are probably still a few cancer
13 types that are excluded but it would be the
14 broadest possible list that you could cite a
15 rationale for.

16 I don't know which approach we should take but I
17 think that sort of is -- or we could, you know, say
18 we can't decide that, in the absence of being able
19 to decide, then just include them all.

20 DR. MIDDENDORF: I just want to point out to the
21 committee that the document similar to what you are
22 suggesting has already been developed. It was sent
23 out to each of the committee members roughly a few
24 weeks ago. And I think that's the document that
25 Valerie was discussing earlier.

1 DR. MARKOWITZ: And does it have the cancer sites
2 attached to that?

3 DR. MIDDENDORF: Yes.

4 DR. MARKOWITZ: Oh, okay.

5 DR. TALASKA: Yeah, I've been using that document
6 for the last little while while listening to
7 testimony and coming up with some of the sites and
8 some of the compounds that are associated with it;
9 and it for example in the discussion that we had
10 for respiratory disease, clearly asbestos, PAH for
11 hematopoietic cancer that are on our list, would be
12 butadiene and PCBs. For non-Hodgkin's lymphoma,
13 PAH is butadiene, formaldehyde, silica and dioxin.
14 From leukemia, benzene, butadiene, formaldehyde,
15 soot, PAHs and PCBs. And for thyroid the ones that
16 are on there are dioxins, in furans and butadiene.

17 DR. WARD: Julia?

18 DR. QUINT: I also did what Dr. Markowitz did, is I
19 counted up all the carcinogens and all of the IARC
20 1s and 2As and 2Bs and got 70. And I was alluding
21 to what you said exactly in my earlier, not so
22 articulate discussion of using the IARC list as a
23 guide to deciding which cancers and I think Valerie
24 actually had a broader list than I did. They have
25 sufficient and limited. I only said the 11 cancer

1 sites were the sufficient evidence, but we could
2 definitely do the limited as well, and would be a
3 broader number. So I very much favor that as
4 opposed to any of the other two alternatives he
5 listed, which was epi data and I forgot what the
6 other ones were. Either that or all would be my
7 suggestion.

8 DR. WARD: Let me just ask one question for
9 clarification. So are you referring to both animal
10 and human sites or just human sites?

11 DR. QUINT: I was referring to human sites. I
12 think, and I had even narrowed it further to
13 sufficient in human, which is a much narrower list.
14 But I would be in favor of, you know, broadening
15 that to the limited evidence as well. And it's
16 this paper by Jim, right?

17 DR. WARD: Right. Well, there's two separate
18 documents. There's a paper by Jim and then there's
19 a document that Paul put together that's much
20 longer.

21 DR. QUINT: That one I didn't get.

22 DR. WARD: That actually lists all the sites in
23 animals as well as humans. But what it doesn't
24 have is -- what Jim's paper has that's unique is it
25 has the carcinogens associated with each site.

1 DR. QUINT: Exactly.

2 DR. WARD: But this, but Paul's more extensive
3 document has the sites associated with each --

4 DR. QUINT: Okay. I didn't get Paul's document.
5 And the only thing I would say about the animal
6 sites is that there's lack of concordance with
7 human sites, so I think we have to be a little
8 careful about that. Because it causes cancer in
9 one site in animals doesn't mean that it's going to
10 cause that same cancer in humans, so I would use
11 caution with that.

12 DR. WARD: Yeah, I agree and I think that's, but I
13 wanted to make sure that's what you were thinking
14 as well.

15 DR. QUINT: Yes.

16 DR. WARD: Kimberly.

17 MS. FLYNN: I don't want to interrupt this
18 particular flow of conversation; I just want to say
19 two things. Would it be possible for both those
20 documents to just quickly be resent to everybody
21 because I'm hearing a little bit that not everyone
22 has one or another of those documents?

23 DR. MIDDENDORF: I just sent the NIOSH summary out
24 to everybody. And you want the Cogliano?

25 MS. FLYNN: Yeah.

1 DR. MIDDENDORF: Okay, yeah, I'll send that one
2 right now.

3 DR. WARD: And we can even put the Cogliano up on
4 the screen.

5 DR. MIDDENDORF: Yeah. We can even put the NIOSH
6 one up, too.

7 MS. FLYNN: The other issue is just something I
8 want to mark and then we can come back to it later.
9 As I understand it, and as the AFL-CIO understands
10 it, there is provision in the Zadroga Bill for an
11 individual's physician to petition the World Trade
12 Center program administrator for inclusion of that
13 specific case of cancer, you know, based on the
14 specific argument that would be made.

15 Maybe we can come back to this later, Dori. I
16 don't know if you're the person to whom this
17 question should be addressed but this is just in
18 response to a point that Susan had raised. But
19 again, I don't want to really, I don't want to
20 interrupt the flow at this point.

21 DR. WARD: So as I'm hearing it, there's at least
22 three options on the table which are not mutually
23 exclusive. One is to focus on the limited
24 epidemiologic study, the cancers that have been
25 seen to be in excess in the published epidemiologic

1 study. One is to focus on cancers basically based
2 on routes of exposure, biologic plausibility and
3 the sites where we've observed nonmalignant
4 conditions. Third is to really rely on the
5 evidence that's been assembled by IARC regarding
6 sites of cancer associated with carcinogens that
7 were present at the World Trade Center site, and
8 that idea would include both sites that were deemed
9 to be sufficient and limited in humans.

10 So I wonder if anyone else has a different point or
11 a different idea than those three? I mean,
12 obviously the other option on the table is to just
13 specify all cancers and leave it up to the judgment
14 of the physician.

15 DR. ALDRICH: Well, then you could also look at
16 combinations of those approaches but the one big,
17 big problem with just looking at the epidemiologic
18 data is that this was male only, and so clearly
19 there would be no ovarian carcinomas, and there's a
20 question about asbestos relationship with that.
21 And there will be very, very few or very little
22 possibility for breast cancer so I think that would
23 be a problem to rely on that alone.

24 DR. WARD: Valerie?

25 MS. DABAS: I think that's why I think we leave it

1 up to the individual physicians. I've seen them,
2 it's, you know, on the basis that I've seen
3 physicians specifically tell responders that their
4 particular cancer is not linked to WTC, so it's not
5 a far stretch to believe that physicians,
6 individual physicians, would tell their patients
7 that these are the reasons why their cancer may not
8 be linked. And so if they have to make a written
9 request to the program to get it, you know, to get
10 this person admitted into the program for cancer, I
11 think that they would do it with caution and we do
12 have to leave the treating physician some leeway to
13 make determinations for their patients because
14 they're going to know that patient's background,
15 that patient's, not necessarily exposure but other
16 risk factors that may be associated that might have
17 made them more likely than not to get cancer from
18 the World Trade Center exposures.

19 DR. WARD: Tom? Did you have a comment?

20 DR. ALDRICH: Just one comment. I think it's
21 dangerous to give individual treating physicians
22 too much power in this situation. I think we see
23 that with the Long Island Railroad disability
24 problem. I mean, those, all those doctors verified
25 disability.

1 DR. WARD: Yeah, I guess as an epidemiologist, I
2 think I probably have more of a skeptical view of
3 the information that clinicians would have
4 available to them to make those determinations, and
5 I do think we have a few people who see patients
6 and make, you know, comp recommendations in the
7 room and maybe they can speak to it as well but for
8 your, I mean, one of the complications, I think, is
9 that most occupational cancers are difficult to
10 distinguish from non-occupational, at least based
11 on pathology or symptoms or really anything about
12 them, and so in the absence of epidemiologic data
13 or, you know, other strong -- it's going to be a
14 hard call from -- for the physician to make that
15 determination, I would imagine.

16 MS. DABAS: But on some instances at the NYPD and
17 FDNY, they have had to. When they filed for
18 three-quarter pension disability, physicians have
19 been asked to make that type of determination and
20 further their determination is looked at by their
21 district surgeon which is hired by the City, so
22 there is some scrutiny to what these physicians are
23 doing and I think that again, if we believe that
24 cancer has -- there are multiple sources and
25 multiple things that contribute to somebody

1 developing cancer, such as their past history, then
2 we have to, in a certain way, also bring the
3 physician in because if somebody has, you know, a
4 history of -- has some type of medical history
5 since 9/11 where they're getting treated for GERD
6 and they're getting treated for asthma and they're
7 getting treated for all these other things, and
8 they develop a cancer, I think that physician can
9 make the determination that their cancer might
10 have, more likely than not, is caused by the
11 inflammation from those diseases and thus World
12 Trade Center-related.

13 DR. MIDDENDORF: I do think I need to caution the
14 committee that the question before you is not
15 whether or not you can push the determination
16 downstream. The question before the committee is:
17 Do you believe that all cancers or a specific type
18 of cancer should be added to the covered list and
19 what is the scientific justification for that?
20 Pushing it downstream is not something that you
21 really need to be thinking about or focusing on.

22 DR. DEMENT: This is John Dement, can I just
23 interject a comment?

24 DR. WARD: Yes.

25 DR. DEMENT: With regard to the comment previously

1 about asbestos and ovarian cancer, that's based
2 actually on human data. The original listing in
3 IARC for lung and mesothelioma did not include
4 ovarian but these data came about later and is now
5 listed based on human data as well as the larynx.
6 I guess I, as a researcher, favor a list based on
7 the IARC criteria that we discussed as opposed to
8 all cancers. I think it's much more defensible.
9 And I too have a lot of concerns about placing too
10 much, too much weight on physicians who may or may
11 not have training to make these determinations.

12 DR. WARD: Thank you, John.

13 DR. TALASKA: I would agree with that very much. I
14 think that we help the administrator much more if
15 we can give the list of either sites or -- that
16 have biological plausibility with related to the
17 exposures that we know occurred, and that would
18 help them make much stronger and much more
19 defensible case in the political realm or any other
20 realm. The stronger the evidence that we can
21 provide for particular things. We have already
22 admitted there's limitations of what's out there.
23 And we're acting on the -- but we have seen that
24 there is other information that we can use based
25 upon exposure, based upon effects and relationships

1 that are known either through human studies with
2 previous exposures or through strong animal
3 evidence where things like soots, where there seems
4 to be an indication. And I think we help much more
5 and build a much more defensible case by doing some
6 culling and not just allowing individuals to be
7 able to -- physicians particularly be able to --
8 they can say which diseases.

9 DR. WARD: So it sounds like several people have
10 spoken in support of the idea of using the IARC
11 carcinogen list. Would anyone else like to speak
12 either in favor of that or as opposed to it?

13 UNIDENTIFIED SPEAKER: I'm sorry, I couldn't hear
14 you.

15 DR. WARD: Oh, I'm sorry. I was saying that
16 several people had spoken in favor of using the
17 IARC list, you know, the list of carcinogens that
18 were present in relation to the IARC list of sites
19 affected to make a recommendation, and I just
20 wanted to know if anyone on the committee either
21 wanted to speak -- further speak in favor of that
22 idea or speak against it.

23 MS. MEJIA: Can I just make a comment? I mean, I
24 just got this article so I really haven't had the
25 time to look at it, but I'm uncomfortable carving

1 out certain cancers over others.

2 In light of what Dr. Aldrich said, you know, we
3 still have some questions about cancers in men and
4 in woman and in children and in others, and again,
5 I think that there will be controls and guidelines
6 built into this at the other end that could then
7 address, you know, whether that cancer should be
8 covered or not. You know, I'm just uncomfortable
9 about carving out and then leaving out a population
10 that really should have been covered. Those rare
11 cancers that Valerie spoke of, I don't want to play
12 God here.

13 DR. WARD: Steve?

14 DR. MARKOWITZ: Well, you know, I think if we
15 recommend a scheme, whatever scheme we recommend,
16 that rare cancers should be included because
17 they're rare and we have no way of proving or
18 disproving, never will have any way most likely or
19 hopefully they will remain rare, so I think they
20 should just be included.

21 One vulnerability of the approach -- I think the
22 IARC approach that I'm a little concerned about is
23 this master list of 287 chemicals which are, as we
24 see on the title up there, chemicals of potential
25 concern, which NIOSH inherited from 2003 proc- --

1 2002 process, where these agents were assembled
2 from EPA data from four sources. And the
3 vulnerability is that there's the word potential
4 concern.

5 And it's a very long list. Clearly there's good
6 documentation for certain things like PAHs,
7 asbestos, dioxin, you know, important chemicals.
8 And there may be relatively little documentation
9 for other agents on that list. We don't have the
10 capacity to look at that and evaluate, select out
11 which are important and which aren't important.
12 But it is a vulnerability because that list is very
13 long. And if in fact some of those exposures were
14 truly just potential and they weren't necessarily
15 there, then it makes the approach, it undermines
16 the approach. That's what I'm saying.

17 DR. WARD: Yeah, so let me just say one thing. So
18 in terms of the IARC list, when we talk about
19 identifying sites associated with exposures, you're
20 really only talking about the group 1 and 2a
21 carcinogens, which is a much smaller list because
22 IARC only designates sites, human sites, for those
23 things that are thought -- that have sufficient
24 evidence in humans. But on the other hand that
25 approach leaves out a large number of substances

1 for which there may be compelling evidence of
2 carcinogenicity in animals but just no strong and
3 enough epidemiologic studies to demonstrate a site-
4 specific effect.

5 So there's pros and cons but I think, but it is
6 important for the committee to understand that if
7 we did take the approach of using the sites for the
8 IARC specified carcinogens, that that would be
9 limited to carcinogens which IARC believes had
10 sufficient evidence in humans because otherwise
11 they can't specify a site.

12 Yes.

13 MS. HUGHES: I also just wanted to remind people
14 there was a meeting early on, I remember, at the
15 Javits Center, where a lot of the air quality data
16 analyzed was discussed. I remember one of these
17 sampling people might have been from the EPA, I
18 can't remember. He was like wow, we found
19 chemicals that we never even knew existed before.
20 So they might not even actually make this list
21 because we didn't know that they could have been
22 created or formed and what their impact may be, so
23 I just wanted to put that information out there.

24 DR. WARD: Okay. Paul just pointed out there's 14
25 group 1s. Fourteen or 15, so we're talking about a

1 relatively small number.

2 DR. HARRISON: What about 2As? I'm sorry, Paul,
3 did you count the 2As?

4 DR. MIDDENDORF: I can try.

5 DR. HARRISON: Is it possible to sort of throw up
6 some examples? I'm getting a little confused --

7 DR. WARD: Can we throw up the --

8 DR. HARRISON: -- about what exactly we're
9 proposing now? Right. So we're talking about
10 using the Cogliano paper.

11 DR. WARD: Well, let me just say what the Cogliano
12 paper is. So the Cogliano paper was done after
13 IARC re-reviewed all of the compounds that had been
14 previously assessed as group 1, so it's mostly that
15 but he's also providing data about, I believe, 2A
16 carcinogens. But I think the sites of cancer in
17 humans are only listed, I believe, for the group
18 1s. Yeah.

19 So basically what they're doing is they're taking
20 the agents that are classified as carcinogenic for
21 humans and showing the associated cancer sites.

22 DR. HARRISON: And that's in table 1 and what was
23 their proposal? So use the table 1 which has both
24 the sufficient and the limited evidence. From the
25 Cogliano so it's table 1 if I'm doing that

1 correctly.

2 DR. WARD: Right, and just basically that's just
3 the most, I mean, it's the most up-to-date version
4 of all the IARC information.

5 DR. HARRISON: And then to cross-walk that with the
6 evidence for exposure from the World Trade Center
7 site? So the chemicals would have identified a
8 concern from the World Trade Center site. Cross-
9 walked against table 1 and then to derive the
10 cancer sites?

11 DR. TALASKA: Isn't that what your paper did
12 though, the NIOSH paper? Didn't you do that
13 cross-referencing already on World Trade Center
14 sites -- excuse me, with World Trade Center
15 exposures?

16 DR. MIDDENDORF: Well, what's in the NIOSH document
17 is a listing of the -- it's an extraction from the
18 summary paragraphs in IARC identifying what the
19 evidence is, both human and animal. So it
20 identifies the human sites as well as the animal
21 sites that were looked at.

22 DR. TALASKA: Yeah, so for table 2 it's for limited
23 evidence in humans, which could be because
24 sometimes it's complex mixtures and the individual
25 components are then listed inside of that and

1 there's never been any human data, just one
2 compound in PAHs for example, so there's several
3 PAHs listed there for example. And then but then
4 sufficient evidence of carcinogenicity in
5 experimental animals, so if we include both table 1
6 and table 2, and then those have already been
7 culled because they've been compounds which were
8 identified at the World Trade Center.

9 DR. MIDDENDORF: All right, you're talking about 2
10 or 2A?

11 DR. TALASKA: I'm talking about NIOSH, in your
12 NIOSH paper, you're the lead author, table 1, which
13 is sufficient in table 2.

14 DR. MIDDENDORF: Okay. In table 1 are the group 1
15 IARC compounds.

16 DR. TALASKA: Correct.

17 DR. MIDDENDORF: And table 2 is group 2A.

18 DR. TALASKA: Two-A compounds, correct. So that
19 takes into account some of the exposure situation
20 and actually if we use that particular table, then
21 we have a built-in biological and exposure
22 plausibility.

23 DR. WARD: Right. So we have four tents up and
24 we'll just go in order. So, Steve.

25 DR. MARKOWITZ: Just to clarify. Is the proposal

1 to include the 2As? Two-As are probably
2 carcinogenic in humans. Is the proposal to include
3 the 2As? Two-As include, PCBs is a 2A; it's not a
4 1.

5 DR. MIDDENDORF: Right.

6 DR. MARKOWITZ: So 2As, a site is specified, I
7 believe.

8 DR. MIDDENDORF: It is.

9 DR. MARKOWITZ: In the -- right. A cancer site is
10 specified so we don't have that problem with
11 animal-only data where we don't know what site it
12 causes in humans?

13 DR. MIDDENDORF: Right.

14 DR. MARKOWITZ: We don't have that problem with the
15 2As. There are only a few 2As on this list.

16 DR. WARD: Right, so certainly then we should
17 include them. If the site is just -- see, I think
18 it depends. Some things may be 2A and not have a
19 human site because it's not based on human data but
20 I mean, if it's classified as 2A and there is human
21 data and there is a site specified, then I think it
22 should be included.

23 DR. MARKOWITZ: I agree with that.

24 DR. WARD: Yeah. Julia?

25 DR. QUINT: I'll be brief. The only -- the other

1 cautionary note that we should put somewhere in the
2 recommendation is that this is ever-changing
3 because these, you know, chemicals are being moved
4 up based on mechanistic data so we should
5 definitely state that this is a dynamic process
6 within IARC and now NTP as well in terms of, you
7 know, moving class -- reclassifications of these
8 chemicals.

9 And I also wanted to ask, there's another paper
10 from the 100 IARC monograph, 100 monograph series
11 that was published as a separate paper and I'm
12 wondering if that's included. If we have all of
13 the substances from that table. It's a special
14 report on metals, arsenic and dust in fibers. Did
15 your list include all of those as well?

16 DR. WARD: I would think it should because that was
17 one of the six subgroups of the IARC 100.

18 DR. QUINT: Right, and you went through the whole
19 series. Okay. Great. Thanks.

20 DR. WARD: So Steve, your tent is up. Did you
21 have...

22 DR. MARKOWITZ: Oh, no, I'm sorry.

23 DR. WARD: So it sounds like there's no
24 disagreement that we might -- that we would want to
25 include kind of the cross-walk between Paul's table

1 of the substances present at the World Trade Center
2 and the IARC group 1 and 2A carcinogens for which
3 they're site-specified. But I think we should -- I
4 mean, and that may cover a large number of the
5 sites that we would be otherwise concerned with.
6 But I guess one question would be -- so that's one
7 approach and it's very systematic but should we
8 also -- I mean, I'm concerned about the cancers
9 that might be associated with the sites of chronic
10 inflammation and irritation, whether we want to
11 call that out specifically, and this may be getting
12 beyond our charge but I still think it's worth
13 having in our minds, so for some of those cancers,
14 like laryngeal and oral pharyngeal, if they're
15 specifically called out then there may be increased
16 scrutiny or screening.

17 Now as someone who's now devoted their life more to
18 general cancer issues, I can say that it's not a
19 foregone conclusion that early detection and
20 screening is beneficial all the time. Sometimes it
21 can just result in longer survival with the cancer
22 and not a reduced risk of dying of the cancer, but
23 still there's an -- yeah, it can. Unfortunately,
24 so. So I guess but I do think it's worth, 'cause I
25 guess in my mind still from, and it's from, you

1 know, many of the things we discussed yesterday, I
2 do have a particularly high concern for cancers
3 developing at the sites where there's inflammation
4 and irritation just because of all of the things we
5 discussed yesterday. You've got exposure to
6 mutagens, you've got -- and then you've got these
7 chronic inflammatory processes that could very well
8 enhance the potential for developing cancers at
9 those sites, so that's one piece -- that's one
10 question that, you know, I'd like to hear some
11 opinions on. Glenn?

12 DR. TALASKA: I'm in strong -- now I'm in strong
13 agreement with that, now that it's on. The best
14 case for cancer synergy in the world is the
15 interaction between aflatoxin exposure in China and
16 the hepatitis B1. Individuals who are positive for
17 aflatoxin exposure have about a five-fold increased
18 risk of liver cancer and individuals with hepatitis
19 B1, have hepatitis B, have it was like seven- or
20 eight-fold but the interaction is 60-fold, so if
21 you're positive for both you have a 60-fold excess
22 risk.

23 And that's the idea, again, of irritation,
24 increasing self proliferation. And I'm in full
25 agreement with what Steve said earlier about for

1 those sites where cancer occurs in the organ
2 systems that are already included in the program,
3 where there is irritation, where there is chronic
4 exposure, where there have been effects documented
5 I think, are -- should be really highlighted. That
6 should be part of the biological plausibility when
7 we say these sites, there are data from the
8 exposure to support these sites. That should be
9 highlighted. Where we know the exposures are high,
10 that should be highlighted 'cause it gives the
11 administrator much more information in defense when
12 they come back.

13 The more information we can provide them, I
14 believe, the better. And for those sites we don't
15 know, we can include all of these other sites as --
16 if we want to just say we approve cancer. And then
17 these are the ones which have this level of
18 biological plausibility, these are the ones that
19 have this level, this is where we don't know, from
20 a scientific point of view, and we can help them
21 out.

22 It's all we have. We just can't -- it's not really
23 up to us at this point, I don't believe, to assign
24 that now this is related to this, if there's no
25 evidence at all.

1 DR. WARD: Yes.

2 DR. HARRISON: I just have a question. I agree
3 with what you said, Liz. I just have a question
4 about using the IARC 1 and 2A: Is that
5 sufficiently precautionary in its approach? I just
6 don't know enough. I just don't recall the
7 criteria upon which 2As are developed and whether
8 we're --

9 DR. WARD: No, it's not really -- I mean, because
10 the reality is there's a lot of carcinogens on the
11 2B list that are, you know, are known to be
12 carcinogenic in animals; there is not sufficient
13 human evidence. And typically that's because
14 there's been no opportunity to do definitive human
15 studies. It's not that there are no -- it's not
16 that there are negative studies, it's that there
17 are no studies or there are small studies. But on
18 the other hand, so if you're trying to look for
19 sites of cancer, of potential risk from specific
20 exposures, it's really the only, it's the only
21 source of data because you can't specify a site at
22 risk if you don't have human data. But it is a
23 real limitation, and I certainly think that it's,
24 you know, in general it's not precautionary to just
25 look at human -- carcinogens based on human

1 evidence.

2 DR. HARRISON: So are you arguing that we should
3 include 2Bs?

4 DR. WARD: I don't think we can, you know, in
5 looking at -- I mean, I think we should consider
6 2Bs as potentially carcinogenic but they won't be
7 of great help in looking at sites and focusing on
8 sites of cancer of particular risk.

9 Steve?

10 DR. MARKOWITZ: But, you know, we can make that
11 explicit in the recommendation that we considered
12 2Bs and we ran into this practical problem was that
13 they're not -- don't coincide necessarily with
14 specific human sites but that if there's some way
15 in which to use that information in the future
16 or -- so is the proposal then to use IARC 1s and
17 2As and then supplement that with additional cancer
18 sites for which there is epidemiological
19 information, data or otherwise biological
20 plausibility?

21 DR. WARD: I think so. I think, I mean, for sure
22 the 1A and 2As for the sites, and then I think
23 several people spoke strongly on the inflammation,
24 irritation, biologic plausibility. I don't think
25 very many people have spoken about the using the

1 results from the epidemiologic study but certainly
2 that's something we should consider. Yes?

3 DR. ROM: I just want to make sure that we're all
4 speaking the same language. I was going back to
5 the Coglianò article, table 1 lists the
6 carcinogenic agents. There are a hundred things
7 listed. And the second column says cancer sites
8 with sufficient evidence in humans. I take that
9 now we're all agreeing that's IARC 1. Okay, the
10 third column says cancer sites with limited
11 evidence in humans. I'm taking it we're all
12 calling that 2A from IARC. Is that correct?

13 DR. WARD: It may not be totally exactly correct
14 but by and large it's correct because a carcinogen
15 can be group 1 without human -- without sufficient
16 human epidemiologic evidence. If it has evidence
17 in animals and it has evidence of the mechanism in
18 animals also being relevant in people. So that's
19 the group 1. And 2As for the most part will have
20 limited evidence in humans and sufficient evidence
21 in animals, you know; in some cases where there's
22 limited evidence in humans, they will specify a
23 site for that.

24 DR. TALASKA: I think all the ones in table 1 do
25 say they all have sites which have sufficient

1 evidence, but then there are also sites which have
2 limited evidence in humans, okay, so they've
3 already been listed as 1A carcinogens because they
4 have sufficient evidence for one site, more limited
5 evidence for the other.

6 DR. ROM: Okay, this table also lists occupations
7 so I think that we can pretty much ignore. And
8 then it also lists many different medications and I
9 think -- and so that's something we can ignore.

10 DR. WARD: And we're only focusing on the agents
11 for which they're on the list of agents that were
12 present at the World Trade Center site, which is
13 pretty exhaustive. It's listing everything but you
14 could speak to how that list was generated.

15 DR. MIDDENDORF: Essentially what we did was we
16 went back and we took the list that the EPA had
17 developed, and it wasn't just the EPA, they had
18 some other folks with them, identified chemicals of
19 potential concern from four different databases
20 that they had put together. And then we also
21 added, based on the suggestions from the committee
22 at the last meeting in November, selected other
23 chemical agents. I think we added soot and some
24 other things that the committee had suggested
25 needed to be added to that list, so we added those

1 as well.

2 DR. WARD: Steve?

3 DR. MARKOWITZ: But Bill, there are some 2As that
4 are in -- I don't think are in table 1. I think to
5 get into table 1 you had to be a one.

6 DR. ROM: Right.

7 DR. MARKOWITZ: For instance, tetrachloroethylene,
8 which is a 2A, it's perchloroethylene. And I don't
9 see it here, but it is a 2A. It would be included
10 if we recommended 2A.

11 DR. WARD: Yeah, and I think that's the proposal is
12 1 or 2A. As long as there's a site specified in
13 the 2A listing, either sufficient or limited.
14 Otherwise it could be included as a potential
15 carcinogen but it's not informative as to site.

16 DR. MARKOWITZ: In looking at this list that Bill
17 drew our attention to, there is radiation listed in
18 the IARC and we haven't really discussed that at
19 all. Is there any evidence that there was any
20 exposure to radiation at the World Trade Center?
21 Exposure?

22 DR. MIDDENDORF: Yeah, the limited data is reviewed
23 in the first report, the first review of cancer,
24 first periodic review of cancer, and my
25 recollection is that there is very little radiation

1 exposure.

2 What was looked at, trying to remember what it was.

3 Yeah, tritium was looked at and there may be

4 some -- one or two others, but the general finding

5 was that there was very little potential -- there

6 is very little identified exposure to radiation.

7 And by radiation I'm referring to ionizing, not

8 non-ionizing radiation.

9 DR. WARD: Yeah, the one question that I had

10 yesterday, when the results of the analysis of the

11 uniform were presented, was that barium was listed.

12 And I don't know enough about barium to know if

13 it's -- I know that barium, forms of barium are

14 used for radiologic examinations because they are

15 radioactive, but I don't know that -- but it's not?

16 UNIDENTIFIED SPEAKER: No. I don't think so.

17 DR. WARD: Okay. Good.

18 MS. HUGHES: I also believe that there were medical

19 offices at the World Trade Center site as well so

20 that they had x-ray capabilities.

21 DR. TALASKA: But if the x-rays aren't turned on

22 then there's no exposure at all, you know, unless

23 they had a sealed source site and those are pretty

24 well protected, pretty well. But I don't know.

25 UNIDENTIFIED SPEAKER: Not after an explosion.

1 DR. TALASKA: Yeah.

2 DR. WARD: So I guess one question that would be
3 nice to have the answer to is: If we did what
4 we're proposing to do, in terms of the IARC match,
5 you know, are there major -- are there sites of
6 concern that were found in the epidemiologic
7 studies or for other reasons that would not be
8 included, and I mean, there was a specific question
9 about childhood cancer; we obviously have not
10 discussed childhood cancer very much but maybe if
11 we like that approach, then we probably should also
12 look at what's excluded and Glenn and Tom both...

13 DR. TALASKA: No, all of the sites that, at least
14 the ones that I mentioned earlier, respiratory
15 systems, hematopoietic, non-Hodgkin's lymphoma,
16 leukemia, and thyroid are all included in the list
17 that was in Paul's presentations.

18 DR. WARD: What about prostate?

19 DR. TALASKA: Prostate? I don't -- let me check.
20 Prostate'll be one I check.

21 DR. WARD: Tom?

22 DR. ALDRICH: Yeah, I was just looking that up. I
23 didn't get to prostate but two -- what I was
24 concerned about is thyroid and melanoma, and both
25 of those get cross-referenced so I was just going

1 to look up prostate and have that for you.
2 Looks like there's some animal data linking
3 prostate to several ones but I don't see any human
4 data. No, I don't see any human data with
5 prostate.

6 MS. DABAS: Just uniform, the barium that you
7 found, it was from Day 1 the uniform -- his uniform
8 so at that point the x-ray machines hadn't gotten
9 there so it wouldn't be likely that that's where it
10 came from. His uniform came from being on the site
11 on the first day and then leaving shortly after for
12 medical attention.

13 MS. HUGHES: Point of clarification, I meant there
14 were medical facilities at the World Trade Center
15 complex. That could have had radiation in it and
16 that could have been a possible source.

17 MS. DABAS: Oh.

18 DR. TALASKA: Prostate is one that wasn't -- there
19 lead and cadmium are the two that are listed for
20 prostate.

21 UNIDENTIFIED SPEAKER: Arsenic. And arsenic as
22 well.

23 DR. TALASKA: And arsenic. Okay.

24 DR. WARD: So that would be included as well.

25 UNIDENTIFIED SPEAKER: Limited for arsenic.

1 DR. WARD: Yeah. Susan?

2 MS. SIDEL: I was just wondering if there's
3 anything -- if we should like be comparing this
4 list to say the list that came back from Lee on
5 what was on that uniform just to cross-reference
6 it?

7 DR. WARD: I think we can do that. I think -- I
8 mean, like I said, I noticed that many of them
9 seemed to be the same. The one that popped out at
10 me as not having been on some of the other lists
11 was barium but certainly we can, we can do -- but I
12 guess the one caution, now that we're thinking
13 about this approach, is that much of the data on
14 these carcinogens that IARC used was from
15 occupational studies and it was primarily men, so
16 it will under-represent cancer sites that might
17 occur predominantly in women or only in women, so
18 that, that is an acknowledged -- it's a universal
19 problem. Yes, it's a universal problem. But it's
20 probably something that we would want to
21 acknowledge.

22 DR. TALASKA: But Liz, we, you know, the barium
23 that's used in medical procedures, if that's what
24 we're worried about, is not radioactive.

25 DR. WARD: Well, that was my specific question.

1 DR. TALASKA: Yeah.

2 DR. WARD: Yeah.

3 DR. TALASKA: It not radioactive, it's used as --

4 DR. WARD: They make it radioactive.

5 DR. TALASKA: -- a radio-opaque substance.

6 DR. WARD: I see, gotcha, gotcha.

7 DR. TALASKA: Okay? Okay, so that they can trace
8 the line of the whole --

9 DR. WARD: Yeah, thank you. Yeah. Thank you.

10 DR. QUINT: I just have a -- can I? I thought we
11 were going to include the cancers that had
12 increased incidence in the epi studies along with
13 the IARC list; is that not correct?

14 DR. WARD: Well, that was what I was just trying to
15 get clarification on. We heard several people
16 speaking in favor of the IARC and several people
17 speaking in favor of the ones that were affected by
18 nonmalignant diseases but only a few people had
19 specifically said to make sure -- I mean, many of
20 them will be covered already.

21 DR. QUINT: Right.

22 DR. WARD: But I guess even if they're covered
23 already, we probably, in our evidence summary,
24 would like to specifically state that there's
25 further evidence from an epidemiologic study.

1 DR. QUINT: I would agree with that. I want that
2 included as far as --

3 DR. WARD: Tom?

4 DR. ALDRICH: From the epidemiologic study, there
5 are only a few individual cancers for which there
6 was even a suggestion of increased cancer risk
7 because the numbers were so small. I mean, even
8 though it was close to 10,000 people, the numbers
9 of cancers were small, so non-Hodgkin's lymphoma,
10 but that's already going to be covered based on
11 IARC; thyroid, same thing; melanoma, same thing.
12 The only concern is prostate. And the truth is the
13 epidemiology for prostate is pretty weak because
14 the prostate is one of those cancers that is
15 really, really susceptible to surveillance bias.
16 And post-9/11, people were getting a heck of a lot
17 more exams and blood tests detecting prostate
18 cancer. So I'm not sure there's a clear-cut -- any
19 clear-cut evidence of prostate cancer has increased
20 by the events of 9/11.

21 Now, we heard yesterday from -- that the Sinai
22 study may show that but, you know, we can't base
23 anything on a few words about what a study that has
24 not yet been published will or won't show. So I
25 find it difficult to justify including prostate.

1 DR. WARD: Valerie?

2 MS. DABAS: I guess my question on the prostate
3 with the fire department study is just the average
4 age in which these people were diagnosed. You
5 know, we can say that the number is not significant
6 when we look at the general population but do we
7 look at the age of these -- you know, if the
8 average age to be tested for prostate cancer is 55
9 and we're getting people that are in their 40s
10 getting prostate cancer, is that not an area for
11 concern and do we just dismiss prostate cancer in
12 general?

13 DR. ALDRICH: Among the non-exposed people in the
14 fire department study, they were all under the age
15 of 60 at the onset of the study. And there were a
16 substantial number of prostate cancers, both in the
17 exposed and unexposed group. What was not so clear
18 was that there was an increase. So it's not like
19 there -- prostate was one of the ones -- one of the
20 highest represented cancers in the unexposed group,
21 so I think the problem isn't lack of case finding
22 and I don't think the problem is an age issue with
23 prostate. There may be an increased risk of
24 prostate cancer from World Trade Center but I don't
25 think the epidemiology is enough to show that, and

1 we don't have any chemical, what do you call it?

2 Chemical risk data that shows a prostate risk.

3 DR. WARD: I thought somebody said lead, arsenic
4 and cadmium.

5 DR. ALDRICH: Did I miss that in my search? If
6 that's the case then we don't have a problem.

7 DR. WARD: Yeah. Glenn?

8 DR. TALASKA: Yeah, the cadmium one is going to be
9 tough because there was biological monitoring data
10 and cadmium is one of those things which persists.
11 So once you're exposed to cadmium, you know, your
12 first day of exposure to cadmium -- if you're going
13 into a job making batteries, 30 years later when
14 you retire, you'll still have 50 percent of that
15 first day's exposure in your body. Okay? So
16 cadmium is one of those compounds where it leaves a
17 long trail. So basing it just on that, I think, is
18 a little bit weaker and will set the administrator
19 up for a bit of criticism from it because in fact
20 cadmium levels were lower in the firefighters than
21 they were in the control population overall. There
22 were a few -- there were some firefighters that had
23 had higher levels.

24 DR. WARD: Susan?

25 MS. SIDEL: I was just going to say, the one point

1 that I wanted to make is that maybe, you know, the
2 other factor is considered, that is this cancer
3 unusual in someone in this age, and so therefore it
4 was something that wasn't going to be included, it
5 could be included because it's affecting somebody,
6 you know, at a time when they shouldn't be having
7 it. If they were too young to really have this
8 cancer so then it's more likely that it's World
9 Trade Center-related. That could be some sort of a
10 caveat that maybe it's not just cut and dry, that
11 there might be some other, you know, extenuating
12 circumstances?

13 DR. WARD: And I guess where I don't -- so that,
14 would that be something that would be considered in
15 terms of an individual clinician recommendation or
16 is that something that we would need to make in
17 our, in our recommendation?

18 MS. SIDEL: I mean, if we're thinking about
19 excluding something, I would, I would say that we
20 should say, however, there is this factor that
21 we -- that if somebody is below the age of
22 whatever, that that's unusual, it's unusual to
23 contract this cancer at that particular age, if
24 that's the case, with what Valerie was saying about
25 prostate, that the people that were getting it were

1 too young to be getting it.

2 DR. WARD: Julia?

3 DR. QUINT: One thing that might be equivalent in
4 toxicology is the time to tumor in animals. When
5 you treat animals with, you know, with the chemical
6 and they get tumors earlier, that's considered
7 significant in terms of the findings, so we may
8 have the human equivalent of that with some of
9 these high intense exposures over a short time
10 period in humans. I mean, that could be plausible.

11 DR. WARD: Yeah. Catherine?

12 MS. HUGHES: I'll pass for now.

13 DR. HARRISON: One advantage I can see to this
14 approach is that it eliminates the need to deal
15 with dose. So I think we're basically would be
16 saying that if we're using a 1 and 2a and
17 cross-walking with the exposures from the World
18 Trade Center, if you have one of those covered
19 cancers, you're eligible, after review by the
20 physician and NIOSH, for treatment and
21 compensation. So I think that has some real
22 advantages because it gets -- you basically, I
23 think, skirt the issue of how long were you there
24 for, what the exposure intensity was and maybe even
25 a latency period, although we haven't talked about

1 the latency period yet. And I think I support that
2 approach for its simplicity and its precautionary
3 principle embedded in that; although, there's a
4 part of me which says that -- there's a little bit
5 of discomfort I have also with that approach
6 because, you know, basic principle for many
7 cancers, although there's certainly no threshold
8 for carcinogens and some concept of dose response
9 and dose risk, which we are not, which we are maybe
10 not acknowledging this approach somehow. But I
11 think I'm okay with it.

12 I guess I just want to say I think that that's a
13 sensible approach that affords the kind of
14 treatment and compensation to this population that
15 I think we've heard lots of testimony over the last
16 couple of days that's very compelling in terms of,
17 you know, providing the services that people need.
18 DR. WARD: Tom? No. Steve.

19 DR. MARKOWITZ: I want to make sure I understand
20 what you're saying. That we defer questions about
21 dose and time factors to -- we don't make any
22 recommendation about dose and time factors?

23 DR. HARRISON: Correct. I'm not proposing that we
24 make any recommendation. It's almost like a
25 presumption. Steve, you know, like there's a --

1 DR. MARKOWITZ: No, no, I agree with it.

2 DR. HARRISON: Right. Yeah, there's a cancer
3 presumption here that if you fall into this group
4 and this category by some scheme, 1A, 1 plus 2A
5 plus a cross-walk to the exposure plus biological
6 mechanisms and the other factors that we mentioned,
7 that you're covered.

8 DR. MARKOWITZ: One other comment that I have, is
9 one way of addressing Susan's concern about age is,
10 if we do have kind of an escape clause for rare
11 cancers, that we could define rare as being by site
12 or by age, and that would cover that. That leaves
13 a lot to the discretion of the treating physician
14 but that's okay.

15 DR. WARD: I guess another question that I would
16 have about this is, is in the end, are we going to
17 come close to covering, by this approach, all
18 cancers anyway?

19 DR. MARKOWITZ: No. I don't think so. I'd have to
20 look at the tables but I don't think so.

21 DR. WARD: It would be nice to -- if we could -- I
22 don't know how quick anyone can do it 'cause I -- I
23 mean, if we're covering, if it turns out that we
24 were covering 90 percent then -- you don't think
25 so?

1 DR. MARKOWITZ: No.

2 DR. WARD: Even keeping in mind that lung, breast,
3 colorectal and prostate are probably 50 percent of
4 all cancers. So I mean, it's probably worth
5 looking at to see which -- I mean, it's probably a
6 majority of cancers that will be covered when we do
7 this tabulation, I'm guessing, so then the question
8 is which ones will not be covered, and then the
9 other thing I think we need to be careful of is
10 sometimes when IARC designates sites, it may --
11 they may not exactly match up to the sites that we
12 know of today -- I mean, it's not going to -- I
13 mean, we need to be careful, when we make these
14 final tables, that we are not inadvertently
15 excluding sub-sites or, you know, things that
16 really should be included conceptually.

17 DR. MARKOWITZ: By the way, I don't see breast
18 cancer on this list. I'm not advocating it, I'm
19 just saying it's a big cancer that's not on the
20 list, as an example. Most of the cancers, if you
21 combine 1 and 2As are the respiratory cancers and
22 the head and neck cancers, including pharynx, nasal
23 sinuses, GI cancers, I think thyroid and prostate,
24 melanoma and --

25 DR. WARD: And leukemia.

1 DR. MARKOWITZ: And the blood cancers.

2 DR. WARD: Yeah, blood cancers.

3 DR. MARKOWITZ: Including lymphomas and all the
4 leukemias. I think that's it. And bladder cancer.

5 DR. WARD: Yeah, and I guess that really -- at this
6 point one of my biggest concerns still is that
7 we're not covering women, and it's not something
8 that we did but I mean, it's going to be
9 problematic, I think, as this recommendation goes
10 forward that, I mean, that that is one of the
11 limitations of that database so we should think
12 about how to -- if we can address that and how.
13 Bill?

14 DR. ROM: I have reservations of using the IARC
15 list and I think it goes too far. And if you take
16 the IARC list and you start with the first item,
17 and the first item on the list is arsenic. We're
18 all in pretty good agreement that if you inhale
19 arsenic you probably have an increased risk for
20 lung cancer. But there's also a lot of toxicology
21 violations here. You start off with oral arsenic,
22 and then with oral arsenic, you've got bladder,
23 skin, liver and kidney. Now we're getting what I
24 would say is a reach that, you know, this isn't
25 really relevant to WTC dust exposure in our

1 experience of what we're supposed to be
2 recommending.

3 So if we are to use the IARC list, and Dr. Rom says
4 this is a reach, I think somebody needs to go
5 through the list and annotate this and say what's
6 relevant and what's not relevant, and I would say
7 that oral arsenic, on the very first line at the
8 top of the list, is not relevant to our WTC dust
9 exposure.

10 DR. WARD: See then, I would argue with you. So
11 this is why I get so difficult 'cause I would say
12 well, a lot of the evidence for humans in arsenic
13 is from drinking water; and people are working on
14 the site, they're eating, they're drinking, they're
15 touching their lips, so people have the potential
16 to absorb arsenic through the oral route and again,
17 I -- yeah, so that's where you get -- it gets so
18 hard, when you try to fine tune it too much, you're
19 going to have a lot of differences of opinion.

20 DR. ROM: I would argue that if you went to
21 Bangladesh, where you've got the highest arsenic
22 exposures in the world, you're going to have, you
23 know, there's going to be some increased cancers,
24 but trying to find these sites is going to be a
25 real challenge.

1 DR. WARD: Well, I think where a lot of the data
2 comes from is epidemiologic studies in countries
3 where there is highly arsenic contaminated water,
4 and so you do see excess bladder cancers, for
5 example, associated with living in areas that have
6 high arsenic content in the water.

7 And the other thing is that a lot of these same
8 sites are related to some of the other carcinogens
9 on the list.

10 So I also have qualms about the IARC list and the
11 two of them are, there is, I mean, it's not really
12 addressing women very well and it really is only
13 those things for which epidemiologic studies could
14 be done, and we know that that's not the whole
15 universe of potential carcinogens. So I do think
16 that it should be the IARC list plus, not just the
17 IARC list.

18 DR. ROM: I would counter-argue once again that
19 somebody needs to go through this list with some
20 judgment about medical toxicology, about the route
21 of exposure, the quantity of exposure, because you
22 can go to benzo(a)pyrene and we think that has
23 always been the big carcinogen in tobacco smoke,
24 but when you get right down to it and look at
25 adducts and all of this, you'll find that there are

1 other carcinogens in tobacco smoke, like petroleum,
2 which are in other aldehydes, that are in huge
3 quantities and make just as many adducts. And
4 benzo(a)pyrene may not be the carcinogen for the
5 lung cancer. And you go to the second line and we
6 have benzo(a)pyrene as lung, bladder and larynx, so
7 somebody's got to make some judgment calls about
8 the sites related to what the exposures were, the
9 quantity and the type of exposure, whether it was
10 inhaled or skin or what have you. And that may be
11 the job for the administrator and his staff.

12 DR. WARD: Tom?

13 DR. ALDRICH: I think you make a really good point
14 about women being left out of much of the research
15 that's gone on to generate the list, and mostly
16 we're talking about breast, ovarian, uterine,
17 cervical.

18 As far as ovarian they're probably going to wind up
19 being included along with the asbestos risk.

20 Breast seems to me to be the big problem. But
21 aren't there enormous databases of breast cancer
22 patients and wouldn't it be a quick, easy study to
23 do a case-control study of breast cancer patients
24 for World Trade Center exposure in the background?
25 Wouldn't that be something that could be done from

1 retrospective data that's already sitting in a
2 database up at Sloan Kettering or somewhere?

3 DR. WARD: I doubt it.

4 DR. ALDRICH: Couldn't we marry that with our other
5 research mandate to say you must do a case-control
6 study?

7 DR. WARD: Well, I think it's an important issue
8 but I don't know. I mean, it's usually
9 epidemiologic studies are not, you know, there's no
10 such thing as easy in epidemiologic studies.

11 DR. ALDRICH: True, but breast is such a common
12 tumor that it might be one where this kind of
13 approach would be very fruitful in a very short
14 period of time.

15 DR. WARD: Right. And I do think that, you know,
16 especially if we could do a population-based study
17 rather than a hospital-based study, there might be
18 some benefit. So okay, I think we need to figure
19 out, I mean, I think there's concern about over-
20 reliance on the IARC list. But, I mean, I'm not
21 sure that it makes sense for us to recommend fine
22 tuning the IARC list any further because I think
23 we're going to run into the same problem we've run
24 into before, that we don't have enough information
25 about level of exposure and route of exposure and

1 relevance to further refine that list. And in
2 addition most sites will be listed -- will be on
3 the list because of their association with many or
4 at least a number of carcinogenic exposures, so
5 their inclusion will rarely be based on one
6 particular exposure. And even for benzo(a)pyrene,
7 for example, benzo(a)pyrene is just one of many
8 PAHs and a large number of -- or at least a
9 significant number of the PAHs are carcinogenic.
10 It's not just benzo(a)pyrene.

11 So I, I mean, so somebody else, I mean, could kind
12 of, I'm looking at Steve 'cause he's been so good
13 at pulling consensus together. Kind of summarize
14 where you think we are from hearing the discussion,
15 both what you think there's general agreement on
16 and what there might not be general agreement on
17 that we should discuss further.

18 DR. MARKOWITZ: So I gather there's some consensus
19 around recommending the use of the IARC 1 and 2A
20 categories in combination with the NIOSH list
21 they've already published in their first report on
22 carcinogens, the contaminants of potential concern,
23 to identify specific organ sites where a cancer is
24 likely to be related to World Trade Center
25 exposures; and then secondly that that list be

1 supplemented by additional cancer sites in which
2 there's either a strong biological plausibility,
3 strong exposure information or epidemiologic data
4 that support addition of those sites; and third I
5 would -- I'm not sure there's a consensus about
6 this but that rare cancers should in addition be
7 included, rare being defined by site or by age.
8 Was there anything else?

9 DR. WARD: And I think the -- I mean, so two
10 outstanding issues are, you know, we probably don't
11 have to go further in defining rare, but I think we
12 should acknowledge there is a big complexity there
13 so, you know, I mean, is brain rare? When brain is
14 rare -- and no, not rare. Okay.

15 DR. HARRISON: Liz, excuse me, I just want to say
16 goodbye. I'm sorry but I have to really.

17 DR. WARD: Thank you so much. Sorry.

18 DR. HARRISON: And I do support what's being said.

19 DR. WARD: Okay, great. Great. Thank you. I'm
20 noting to the record that Bob Harrison is leaving.

21 MS. HUGHES: Can I ask one point of clarification?
22 Is there a list that talks about what the average
23 age are for different cancers? 'Cause we haven't
24 seen that table.

25 DR. WARD: There's actually lots of data and I can

1 easily provide some of -- I mean, I can provide all
2 of it basically from the work that we do at ACS.
3 So we basically have age-specific incidence rates
4 for pretty much every cancer and from that -- and
5 we also have estimates of the number of people per
6 year diagnosed with specific cancers at specific
7 ages. Sometimes those numbers can be a little bit
8 easier to digest. And these are not just our
9 numbers, I mean, we share the numbers with the
10 National Cancer Institute and the CDC, so that's
11 pretty straightforward information to provide. I
12 think what's more difficult is to know where to
13 draw the line as to what we consider rare and
14 common but I'm imagining that we won't get into
15 that level of detail in our recommendations.
16 So the only issue -- one of the issues that I feel
17 is not covered there and maybe we should at least
18 address is, as Tom said, for breast cancer it, you
19 know, I mean, we either could take no opinion or we
20 could say it should be covered or we could say that
21 it really needs to be a research priority because
22 most of -- a lot of the data that we're basing our
23 determination on is occupational studies where
24 there were not sufficient women to address female,
25 breast and gynecologic cancers.

1 DR. ALDRICH: Steve Cassidy just pointed out that
2 the EMS fire department study is being analyzed as
3 we speak and its results will be in the not too
4 distant future and more than half the EMS workers
5 are female. Now, the numbers won't be 10,000 but
6 it'll be a lot.

7 DR. WARD: Great.

8 DR. ALDRICH: And breast is a common tumor, so.

9 DR. WARD: Great. And that fleetingly passed my
10 mind, too, so I'm glad you mentioned it. But still
11 for the recommendations at this point in time we
12 have to decide whether to just let it rest or to
13 make a specific comment about it, I think, just
14 because it is one of the foremost common cancers in
15 the population and we're really not able to address
16 it with that particular database that we're relying
17 on for most of our information. So even if we just
18 say that, it should probably be addressed. In the
19 context of whether the -- you know, why did we
20 choose to take this approach and then what are the
21 limitations of the approach. Steve?

22 DR. MARKOWITZ: I want to come back to Bill's point
23 because I think it is a vulnerability for the
24 administrator about adopting this approach, which
25 is, you know, that list of 287 chemicals was, you

1 know, contaminants of potential concern. I keep
2 thinking about potential and thinking about what
3 kind of exposure -- kind of sampling that was
4 dependent upon and we heard about some of the
5 limitations of sampling, and it may be that some of
6 those exposures were not important at all or maybe
7 even not have occurred at all. I don't know what
8 potential means there. So it may be worth amending
9 or putting in into the text around these
10 recommendations that this list should be examined
11 with reference to, you know, the validity;
12 acknowledging that there are, you know, big
13 problems with the measurements that were taken.
14 DR. WARD: Yeah, and I think one of the things that
15 we presented yesterday was partly a selective view
16 from me on, you know, what -- of the ones that are
17 1A, like asbestos, I kind of highlighted some of
18 the ones where they were significant exposures so
19 no one can argue that one percent by way of
20 asbestos is not significant, and then they're also,
21 you know, group 1A with very strong evidence of
22 carcinogenicity and pretty strong evidence about
23 specific sites, and some of the other ones that we
24 focused -- that's one of the reasons we focused on
25 the metals because there were a number of metals

1 that were there and a fair bit of -- and reasonably
2 high concentrations that were group 1A, so I think
3 when we look at it there will be some carcinogens
4 listed that some might argue -- I mean, vinyl
5 chloride is an example where I, at least, wondered
6 you know, vinyl chloride is listed but was it
7 really a significant exposure, but, you know, it
8 would take deep digging to know that because, you
9 know, if it was a product of pyrolysis of some of
10 this stuff, then it might have been a significant
11 exposure.

12 But yesterday I kind of focused on the ones where
13 there was evidence both that there was -- the 1As
14 where there was evidence of substantial exposure
15 but it would be a lot of work, I think, to go
16 through and try to look at the others.

17 And yeah, and it's probably a caution 'cause it's
18 just based on evidence that it was there. There
19 was no minimum set for the amount that was there.
20 But I think that it's probably also true that many
21 of the ones that were, you know, were facing a fair
22 number of sites on, like asbestos, were there in
23 large quantities, and that there were numerous lung
24 carcinogens present. So it's really very few sites
25 that will be based on, you know, one compound alone

1 that had questionable exposure associated with it,
2 I think.

3 Kimberly?

4 MS. FLYNN: I'm just wondering whether we need a
5 special statement about children because children
6 are not just little adults. I don't know if
7 children cancer sites differ from adult cancer
8 sites, and maybe Leo could speak to this.

9 DR. TRASANDE: Thank you. I think Steve's comments
10 start to address this insofar as there are, if
11 we -- and I think there's a delicate dance of how
12 this is written that will -- we'll just have to
13 keep a close eye on.

14 I think, I am -- I always have some caution about a
15 blanket inclusion of all of the whole population
16 without regard to any plausibility or scientific
17 argument. But I think the argument that Steve has
18 pointed out about the rare cancers for which there
19 are potential benefits by including in a
20 precautionary mode, that are real and important to
21 consider, so my current inclination, and I think
22 this needs to be a group process; I certainly
23 shouldn't drive this, would be to include all
24 pediatric cancer in the bill. But I say that with
25 quite a bit of caution recognizing that there are a

1 host of cancers that will occur naturally in an
2 unexposed population. And that's a risk that we
3 all -- I think we all are accepting across a host
4 of other conditions as well.

5 DR. WARD: Julia.

6 DR. QUINT: I was just going to say that some of
7 the uncertainty about the list of chemicals and
8 which ones were relevant and some of the exposure
9 route data is offset too by the large number of
10 volatile chemicals for which, you know, we have --
11 that are 2B carcinogens, a lot of them -- for which
12 we have no human data so we won't be saying
13 anything about the sites for those chemicals. So I
14 think there's uncertainty on both ends where we're
15 leaving some possible cancers out because we don't
16 know -- we don't have the data, we don't have the
17 studies to support them, and we'll overstate some
18 other things maybe but there is -- and those
19 qualifications have to be clearly stated in the
20 document. I mean, we're still operating in an area
21 of uncertainty; we're just doing the best we can
22 based on the information we have.

23 DR. WARD: Right. I agree. And I think, you know,
24 I mean, in some ways until we actually see the list
25 and how it tabulates, we may still need some

1 further discussion but it sounds like there's some
2 agreement at least on the approach.

3 So is there anyone who would still favor listing
4 all cancers as opposed to the approach of trying to
5 narrow down the focus somewhat by looking at the
6 IARC or looking at the criteria that we've
7 discussed, the IARC criteria, the nonmalignant
8 irritation and inflammation, the epi studies, the
9 rare cancers and the proposal to include all
10 pediatric cancer? Valerie?

11 MS. DABAS: I guess my reasoning for saying all is
12 because I haven't seen the list yet. You know,
13 these are all lists that, you know, we're saying
14 okay, well, the epi studies, biological
15 plausibility; what does that mean? Which ones are
16 they? Until I see it on a chart, then I can't say
17 that I would definitely say okay, let's piecemeal
18 it out because most -- 90 percent of the cancers
19 are included, and there are 10 percent that we know
20 for sure that will never be, you know, associated
21 with exposure, that those are the ones that we're
22 leaving out.

23 My concern is just, we won't have this list today.
24 I'm assuming that once we leave here, you know, the
25 list will go around. I'm not sure what the -- how

1 we're going to take it from here but I mean, IARC
2 plus this plus that. If I could see it, I think I
3 might be able to have a better understanding of
4 where we're going with this and not -- and move
5 from all to that list. But until I can see that
6 list, I can't move from all to this.

7 DR. WARD: Kimberly?

8 MS. FLYNN: Oh, I'm sorry.

9 DR. WARD: Oh, I'm sorry. Let's hear from Julia
10 and then Paul suggested we have a break so that
11 everybody can stretch and think.

12 DR. QUINT: I just have one -- do we have a list of
13 all the cancers? I mean, even when we get the list
14 of the ones we've mentioned, I'm not sure what
15 universe that represents.

16 DR. WARD: Well, actually I mean, it's not all.

17 DR. QUINT: All cancers, I don't mean all cancers
18 in the world. I mean, all cancers that have been
19 diagnosed or whatever that seem to be WTC-related.
20 Because that's the denominator that we're --

21 MS. DABAS: I don't think we can 'cause while I sat
22 here today I got an email from somebody that was
23 diagnosed with sinus lymphoma, some type of sinus
24 lymphoma, so every day I get a new call about
25 somebody that is diagnosed -- has been diagnosed

1 and hasn't come forward yet. Or, you know, lives
2 in another state and is completely oblivious to the
3 discussions that go on here or go on in New York
4 City about cancer, and have convinced themselves,
5 you know, that it's not related so therefore they
6 shouldn't make a phone call to, to that.

7 And then again, you know, these monitoring programs
8 are not monitoring for cancer so people are steered
9 away from them. If you believe you have cancer,
10 you're going to an oncologist, you're not going to
11 Mt. Sinai. You know, once you've been diagnosed
12 you're definitely not going to take four hours of
13 your day to get the first exam and then follow-up
14 exams because you're going from one oncologist to a
15 PET scan to, you know, all these other
16 appointments.

17 What I've been told by the people that are
18 diagnosed is that they retired from the NYPD and
19 became full-time patients as their second job. So
20 in doing so reporting their cancer is never the
21 first priority.

22 DR. WARD: But I think, yeah, there are lots of
23 ways cancers are classified but the list we shared
24 earlier -- so this is basically the classification
25 by primary site and this is a standard

1 classification and it should really capture all
2 malignant neoplasms. There is going to be a
3 category of other and unknown. There's other ways
4 to classify cancer, by histology, but probably this
5 would be the most logical way to classify cancer
6 and it would capture all the histologies. Yeah,
7 and then but the question of the rarity is you may
8 be able -- a cancer may be rare based on its
9 histology, not just its primary site and so we may
10 have to grapple a little bit with that.

11 DR. ALDRICH: I think Dr. Harrison mentioned the
12 premalignant conditions. I think it was -- and I
13 think those are important, the hematologic
14 premalignant conditions are important things to
15 include in the coverage specifically because those
16 people definitely need follow-up. They may not
17 need expensive treatments, which is a good thing,
18 but they definitely need follow-up and ought to be
19 specifically included, even though they're not
20 cancers. And maybe on the other end of the
21 spectrum, of course, we wouldn't want to include
22 basal cell carcinomas of the skin because it's
23 really not the same kind of biology as other
24 cancers.

25 DR. WARD: Yes, and I totally agree with you and

1 I'm hoping -- well, so not only do I agree with
2 you, and I think that opens the door to an
3 important research area because I do think that,
4 especially with multiple myeloma, there's a lot of
5 new research on the premalignant conditions, and
6 so, but I would appreciate that one of the
7 clinicians actually puts together a list of what
8 those are because --

9 DR. ALDRICH: I nominate Dr. Rom for that.

10 DR. WARD: Good. I know some but I don't think we
11 know all. Leo?

12 DR. TRASANDE: I just want to make a follow-up
13 comment that, related to my comment in the earlier
14 session about the possibility of adolescent and
15 early adult cancers in pediatric or perinatally
16 exposed populations for which we have no idea. I'm
17 not saying for which we have no idea a priori as to
18 which may occur. And I'm pointing this out as a
19 potential research need more than anything else.
20 I'm not suggesting it be included in the bill but I
21 think it's certainly a concern that merits
22 watching. It might be that early onset adult
23 cancers arise in pediatric exposed populations
24 insofar as there's greater proximity, greater time
25 of exposure, acute subchronic and chronic types of

1 exposures as well. Thank you.

2 DR. WARD: Okay, so I think we should take a break
3 so everybody has a chance to move around and think
4 about the issues.

5 (Recess 2:40 p.m. to 3:08 p.m.)

6 DR. WARD: So all the committee members take their
7 seats. Hi, John and Virginia, are you still with
8 us?

9 DR. DEMENT: This is John. I'm still here.

10 DR. WARD: Hey, John. Since we've been talking for
11 a long time and I know you were able to interject
12 once, I would like to give you the opportunity if
13 there's anything you'd like to add to our
14 discussions before we get in the thick of it again
15 and forget you're there.

16 DR. DEMENT: No. I think I agree with the approach
17 that we're taking. I'd like to hear a little more
18 discussion of the rationale for including all of
19 the pediatric cases, if that's the proposal on the
20 table.

21 DR. WARD: Okay, it just happens that Leonardo's
22 tent is up so we'll --

23 DR. DEMENT: Very good.

24 DR. TRASANDE: All right, I'll address John's
25 question. The thought process flowed from the fact

1 that we know that a number of members of the
2 community, many members of the community had
3 exposure ranges that likely overlapped with ranges
4 seen in firefighters and other responders in which
5 increases in cancer had been detected, and that
6 raises the significant potential or plausibility.
7 The fact remains that in a sample of at most 46,000
8 children below 14th Street on September 11, 2001,
9 it's un -- it would be hard to be convinced by any
10 study that would be negative for cancer
11 associations, and accepting that as definitive.
12 And in the absence of such a study, we have to fall
13 back on biological plausibility and in the context
14 of children's unique vulnerability to chemicals
15 such as those identified in the World Trade Center
16 disaster, there remains an extra cause for caution
17 and perhaps precaution in that population. And so
18 I can't define for you a footprint of cancers that
19 I would expect plausibly to be increased in a
20 pediatric population because I don't think we've
21 seen a pediatric population exposed to something of
22 this magnitude. I suppose we could start to reason
23 by certain disasters like (inaudible) but they're
24 different.
25 And so that begins the line of reasoning towards

1 supporting the inclusion of pediatric cancers, and
2 it builds to some degree on the principle Steve
3 outlined about including rare cancers. I think
4 they're grounded in the fact that there's really
5 not an epidemiologic platform on which to build and
6 sustain a definitive decision, yea or nay, as to
7 whether an association can be confirmed.

8 So John, clearly -- love to hear your thoughts --
9 you're much more expert in the world of
10 carcinogenesis than I am.

11 DR. WARD: John, do you have any comments?

12 DR. DEMENT: Yeah. Yeah, I agree with the concerns
13 and somewhat the rationale. I guess what we're
14 talking about is cancers that would be different
15 from the sites that we're going to identify based
16 on the identified pollutants in the exposure and
17 the IARC list. So it would be those that would be
18 again, fairly rare, I would think in addition to
19 those.

20 DR. WARD: Okay.

21 DR. TRASANDE: John, and my response would be that
22 given what little we know about the causes of
23 cancer in adults and what much less we know about
24 the causes of cancer in children though, benzene
25 1,3-butadiene and a few others coming to mind, I

1 think it's hard to a priori elaborate such a
2 footprint that we would anticipate for pediatric
3 cancers that might emerge or a unique pattern.
4 Other than some of the increases in incidents that
5 we've seen in the context of increasing chemical
6 exposures at large, thinking of testicular, brain
7 and leukemia being the three that I can think of.
8 But that wouldn't be a reason for putting those
9 three conditions above all of the others in the
10 context of an acute World Trade Center-related
11 exposure. Those are in the context of more sub-
12 chronic or chronic exposures.

13 DR. WARD: Yeah, and I guess the other issue is
14 that just the distribution of cancer types in kids
15 is so different from that in adults that you really
16 can't -- I mean they don't even line up very well,
17 like there's not much lung, there's not much
18 colorectum, so yes, so it would be hard to infer
19 one from the other.

20 Okay, and I mean, I do want to make sure, I think,
21 I don't know that we'll have a -- be able to make,
22 have a statement drafted to read to the committee
23 by the end of this meeting unless anyone else has
24 had time to write one. I hope to write one.

25 DR. TRASANDE: So my placard was up for a different

1 reason.

2 DR. WARD: Oh, I'm sorry.

3 DR. TRASANDE: It was process, actually, related.

4 DR. WARD: Okay.

5 DR. TRASANDE: And so I would be keen to see a
6 draft consensus document, if we could achieve a
7 rough consensus here. And I would see the need
8 for -- I don't think we're going to get there by
9 4:00 p.m., given that it's 3:15. And so my
10 anticipation is that we will need a conference call
11 follow-up to review and approve a draft document.
12 And that brings me to well, how is that document
13 going to be created, and my -- and I'm certainly
14 not committing to be a major author in such a
15 document. There are others that probably are best
16 suited to do that but I do think we need to resolve
17 pretty quickly what's next in getting to that
18 report and then having a discussion about it, but
19 that's just a suggestion on my part.

20 DR. WARD: Well, Dr. Howard has already granted our
21 extension for our comments to be submitted no later
22 than April 2nd so we've moved the deadline from the
23 March 2nd to April 2nd. I think there's a couple
24 of components, I mean, two things that I think we
25 can do fairly quickly after this meeting is write

1 up a summary that will include the list of IARC
2 carcinogens in sites, so everybody has an
3 opportunity to look at that, look at the other
4 sites that we've agreed to based on the lines of
5 evidence that we've discussed. Then I think there
6 needs to be -- and I'd like to do that sooner
7 rather than later just so people can think about
8 it.

9 But then there needs to be an effort to actually
10 write our recommendations out in a report. We will
11 hopefully fairly soon have access to Ray's
12 transcript of our discussions this afternoon, which
13 he's agreed to put first on his priority list above
14 the rest of the meeting. So we will actually be
15 able to pull some ideas and text from things, you
16 know, thoughts that people have expressed during
17 this meeting.

18 And then of course if there are people who would
19 like to work on a draft specifically, then we can
20 have volunteers to do that as well. I'm certainly
21 willing to work on it, too. But then the idea
22 would be to get a draft out that then would be the
23 topic of discussion at a conference call after --
24 hopefully we would get the draft out long enough
25 before the discussion so that people would have an

1 opportunity to review it in detail and possibly
2 even send comments so that we could try to
3 incorporate them in the draft that we're reviewing
4 on the conference call, but that is a pretty tight
5 time schedule. Now our conference call will have
6 to be announced in the Federal Register so Paul can
7 talk a little bit about that.

8 DR. MIDDENDORF: As far as the Federal Register is
9 concerned, basically just give you the short story,
10 I'll need to draft the Federal Register notice next
11 week, early next week, so if anybody has any
12 suggestions on agenda items, I need to get those
13 before early next week.

14 DR. WARD: Yes, Leo?

15 DR. TRASANDE: I also just have one other -- I
16 realize that this -- the other at least burning
17 topic on my forebrain about this meeting was the
18 research agenda and whether we as a committee
19 needed to approve that document from which the
20 draft was sent around. And my instinct would be to
21 try to close that aspect of business, that the
22 conference call would focus on the cancer document.

23 DR. MIDDENDORF: I don't think we need to do
24 anything more with the document, it has been
25 submitted. If there are new research ideas that

1 the committee wants to forward on, they can begin
2 developing a new document.

3 DR. WARD: Glenn?

4 DR. TALASKA: I was wondering, one thing I
5 mentioned this to you once, Liz, and to other
6 members of the committee, one of my concerns is
7 that, really, to honor the people that were the
8 first responders in this site that we learn
9 something from the mistakes of the exposure metrics
10 that were gathered for this particular catastrophe,
11 and perhaps is it within our purview to be able to
12 make recommendations of what things should be
13 included for a national response, for the next --
14 to protect anybody else in case there's another
15 catastrophe of this magnitude or a magnitude like
16 this? Is that something that this committee can
17 deal with?

18 DR. WARD: Well, I mean, my first question which,
19 and then I'll turn it over to Paul, is I think to a
20 certain extent that has been done in other venues
21 so my first question would be to look for whether
22 it's been done before and et cetera, if we really
23 have something to add, but I'll turn it over to
24 Paul in terms of our charge.

25 DR. MIDDENDORF: Yeah, I think if you look in the

1 Zadroga Act and looked at what the charge for this
2 committee is, it is a scientific and technical
3 advisory committee, and that would probably be
4 outside the scope. However, if you wanted to make
5 suggestions to the program on things on an
6 individual basis, you're more than welcome to do
7 that.

8 DR. WARD: Right, it's also possible that members
9 of this committee, if there's, you know, if they
10 feel moved to, to get together and write a paper,
11 then, you know, they -- because we are going to be
12 immersed in depth in some of these issues and
13 there's certainly no prohibition from taking that
14 into a scientific publication with people who would
15 like to work together on that.

16 DR. TALASKA: Okay.

17 DR. MIDDENDORF: It would not be a product of the
18 committee, though. That would be your individual
19 efforts.

20 DR. WARD: Right. It would be a byproduct but not
21 a product. So I'd like -- I mean, is that
22 process -- Valerie.

23 MS. DABAS: Yeah, I just had a question for Paul.
24 Did you want us to send you possible dates or how
25 would it work in trying to figure out? You said

1 you needed some time to put it on the docket, so I
2 just wanted to know if you had directions for the
3 committee as far as what they need to do to
4 facilitate that.

5 DR. MIDDENDORF: Yeah, what I'll do is as soon as I
6 get back in the office I'll send a Doodle request
7 and try to identify times. One of my questions for
8 you: Do you think that a four-hour time frame is
9 enough? I'm getting a lot of head shaking, so. We
10 will have to include a public comment session so
11 that would reduce it to about three and a half
12 hours. But I think we can make that a short public
13 comment section but we do need to allow that within
14 our agenda. And it would probably be close to the
15 end of March because that's the only time frame
16 that's available to us in terms of when I have to
17 get the Federal Register notice in and how much
18 lead time I have to give them.

19 MS. DABAS: And if the Mt. Sinai or the fire
20 department study is out by then on the EMS workers,
21 would we be able to see those and evaluate those,
22 and if anybody from those entities wanted to
23 present the findings, would that be okay for that
24 date?

25 DR. MIDDENDORF: It's certainly an agenda item you

1 can suggest. And I'm wondering is that actually
2 going to be published or it's only going to be
3 submitted at this point?

4 UNIDENTIFIED SPEAKER: Yeah, it's going to be
5 published.

6 DR. MIDDENDORF: And so I doubt that it will be out
7 by -- in the next month.

8 DR. REISSMAN: I just wanted to respond briefly to
9 the question about whether or not your advice or
10 your input would be helpful. You know, we're
11 always interested whether -- it's outside the
12 committee, but we've done a lot at NIOSH, and also
13 within HHS in general, in response to the lessons
14 that were observed, I'll put it that way, in 9/11.
15 And one of the major projects that NIOSH tried to
16 help coordinate in all of this was an emergency
17 responder health monitoring system, and it's a
18 guidance document that's in a -- I think it's in a
19 docket with NIOSH, and I'll find that and give it
20 to you so that it can be put out there. But it
21 talks about all the lessons learned in all of this
22 from a responder safety and health perspective.
23 Not from the community perspective 'cause NIOSH
24 typically doesn't deal with the community except
25 within this venue. So I just wanted to let you

1 know about that.

2 DR. WARD: Are there comments or questions about
3 the process? Glenn?

4 DR. TALASKA: No, no. That was -- sorry.

5 DR. WARD: Okay, so any other questions or comments
6 about either the discussions today or the process?
7 Yes.

8 MS. HUGHES: Can you clarify a little bit more how
9 the report will address the precancerous
10 conditions? 'Cause I know that had come up. That
11 it wasn't only the end result but sometimes
12 something along the way.

13 DR. WARD: Well, I think we specifically talked
14 about the precancerous conditions for the
15 hematologic cancers and the lymphomas, where
16 there's a very known -- where many of them do
17 progress to the full-blown cancer. I don't know if
18 there's any consideration of any other kinds of
19 premalignant conditions and I'm sure there is a
20 reason to think about them.

21 DR. ALDRICH: I'm probably the wrong person to ask.
22 I'm not familiar with any other areas where there
23 are well-defined premalignant conditions that have
24 a, you know, inexorable progression the way they do
25 in hematology.

1 DR. WARD: Well, the one I can think of is colon
2 cancer.

3 DR. ALDRICH: Yeah.

4 DR. WARD: So if you, if we screen people for colon
5 cancer, we're going to remove adenomatous polyps
6 that then will be -- so it's not completely a moot
7 question. I don't know that we want to go too
8 deeply into it but it's -- the other question in
9 this is just, I guess I want to titillate people --
10 I mean, the other difficult question is down the
11 road is lung CT for screening. Not that that would
12 necessarily prevent a cancer but it could detect it
13 early. And obviously it's not going to be a yes/no
14 answer because it hasn't been studied in this
15 population with all -- but, I mean, these issues
16 are going to be important down the line and it's
17 good to put them on the table. Yes, Julia.

18 DR. QUINT: I have a question. How would this
19 differ from medical guidelines which in
20 occupational health are often developed to help
21 physicians diagnose and recognize, you know, the
22 work-relatedness of disease? Would this be
23 different than that or?

24 DR. WARD: It could be because for some of these
25 things we're still -- I mean, well, for colon

1 cancer for example, you know, there are guidelines
2 for the general population but it's really a
3 question -- but we have to acknowledge that in the
4 course of screening, we will be identifying
5 premalignant conditions that -- and so and treating
6 them. So that's one area. For lung CT, I think
7 the problem is there's only now just recently been
8 a clinical trial demonstrating that screening
9 high-risk people, by virtue of their smoking
10 history, with lung CT, it is a benefit in terms of
11 reducing mortality. There is, however, both a
12 question of radiation exposure, they're screening
13 yearly, and there's a question of morbidity
14 associated with --

15 DR. MARKOWITZ: False positives.

16 DR. WARD: The false positives. So and what's
17 different about this population is it's, you know,
18 we don't know -- first of all, we don't have the
19 same degree of confidence in our estimate that it's
20 of high-risk. We may have pulmonary abnormalities
21 that could make the reading of the -- you know, so
22 there's a million questions that would come up and
23 it, you know, I guess it's a good way to end the
24 meeting to know that we -- we're certainly not
25 answering all the questions about cancer and

1 treatment of cancer and screening and early
2 detection of premalignant conditions in this
3 meeting. And we can't possibly but they are
4 serious questions.

5 So other comments or? Steve?

6 DR. MARKOWITZ: I think, you know, Barrett's
7 esophagus is another premalignant condition.

8 I want to go back to the issue of childhood cancer
9 just for a moment. The logic in covering childhood
10 cancer is that kids were -- some kids were
11 substantially exposed, that the population's so
12 small that we'll never get a epidemiologic answer
13 from that population and that kids have unique
14 vulnerabilities. So in the adult population where
15 we have this enormous, you know, decades of
16 research on, mostly or a lot epidemiologic
17 demonstrating this causal relationship between
18 exposures and the cancers, which we don't have in
19 kids. So is there anything beyond those three
20 things that we can point to that would bolster the
21 case for kids having cancer being covered?

22 DR. WARD: I think maybe expanding a bit on the
23 increased vulnerability and biologic plausibility
24 because you have, you know, I mean, kids by their
25 very nature have more dividing cells and I think

1 there is a pretty strong line of argument about --
2 I mean, even the EPA, I think, sets their, you
3 know, has just kind of sets risk limits for kids
4 differently than for adults based on vulnerability
5 so I think those things could be cited.

6 DR. TRASANDE: Just to expound on that a little
7 bit, and when I made that initial round of comments
8 this morning, I had left the traditional line of
9 arguments, what I call traditional because I just
10 have used them a lot early on in my career, but
11 children's ventilation rates are greater per pound
12 and therefore they inhale and they could have
13 inhaled more out of proportion to their weight than
14 adults in the context of the World Trade Center
15 disaster.

16 Their lungs are in a developing phase all the way
17 through age 20 and so a toxic injury could have
18 more significant consequences at that time of life.
19 And there are others as you mentioned developing
20 organ systems that could fail or be deranged as a
21 result of chemical injury. And then there's the
22 longer latency over which they can have cancer
23 occur, which is a nontrivial component of the
24 arguments. I think that's just elaborating on; I
25 don't think it's adding anything intrinsically new,

1 but I think it provides cement to the foundation of
2 the argument and the literature is substantial in
3 those regards.

4 DR. WARD: So let me ask one question of Paul and
5 the NIOSH folks, so when we -- let's say if we
6 wanted to address the issue of childhood cancer, do
7 you want the committee to come up with really a
8 rationale that cites literature or do you want us
9 to just, you know, essentially say what Leo said
10 and not cite literature? What is your -- what kind
11 of documentation are you requesting for these
12 recommendations?

13 DR. MIDDENDORF: The recommendations can be
14 whatever the committee chooses and they can choose
15 to document the recommendation to the extent that
16 they want. But I think the point is that the more
17 the scientific basis there is for it, so if you go
18 into the literature and you do literature
19 citations, that makes your case stronger. But it's
20 up to the committee as to how strongly they want to
21 make that.

22 DR. WARD: Yes, Catherine.

23 MS. HUGHES: I just want to give some background
24 information generally on children downtown, because
25 there was that great program for responders, they

1 first came out with the guidelines for adults and
2 they revised them, and finally after many years,
3 the pediatric guidelines were developed, so it was
4 many years later. And so there's a huge catch-up
5 game going on here. And there's not has been as
6 much attention in both time or money in doing the
7 studies, just because there is such a limited
8 population.

9 DR. WARD: And has anyone made an estimate of
10 what -- of the number of childhood cancers that
11 might be expected in the 46,000 kids; I'm talking
12 specifically now about childhood cancers, not
13 cancers as they get older. Has that been done or
14 not?

15 DR. TRASANDE: (Inaudible) matter of public record.
16 Not to my knowledge. It's simply a calculation
17 exercise derived on SEER data would really be my
18 basis as a starting point.

19 DR. WARD: Well, it might be useful I guess in
20 terms of writing up the recommendations. It might
21 be useful as just one of the reference points. But
22 I guess I mean, my sense is that we don't -- you
23 know, we're not being commissioned to write a
24 50-page paper but I think, you know, I think we all
25 know what some of the more difficult points are and

1 I think the childhood cancers may be a little bit
2 more debated, so maybe we should, you know, we
3 should think as a committee then for those things
4 that we think will need a higher level of defense
5 or of explanation, that we do ask committee members
6 who have unique expertise in those areas to pitch
7 in and help to draft those sections.

8 And maybe we could think about having kind of the
9 main document which summarizes the key
10 recommendations and then kind of supplementary
11 material that has the more detailed reference
12 information supporting the -- supporting our
13 recommendation.

14 So would people like to volunteer at this point to
15 help with the drafting of recommendations or to
16 help with drafting specific parts of the
17 recommendations?

18 DR. TRASANDE: I'll help with something.

19 DR. WARD: Great. And Leo, we're counting on you
20 for childhood cancers.

21 DR. TRASANDE: I can certainly provide -- pull from
22 multiple sources a summary of the key literature
23 that one would want to cite.

24 DR. WARD: Good. So.

25 MS. FLYNN: I have another process question which

1 is at what point would the rest of us get to see
2 the draft so that we would be able to comment on
3 the call or even before -- I mean, is there a
4 possibility for a draft to be circulated before the
5 call and comments from some of us who are not among
6 the original drafters?

7 DR. WARD: I mean, that would be ideal and I guess
8 what we need to do is work backwards from the date
9 of the call and see what's feasible. I mean, my
10 hope would be to get at least a one-page summary
11 out to the committee next week. You know, really
12 just trying to synthesize what our main points were
13 and also to make the table of the cancer sites from
14 the IARC, you know, from all the different sources
15 so the committee has an early preview of those
16 documents; and then to work on the more -- and to
17 take feedback on that and then simultaneously work
18 on the longer rationale document so that it can be
19 distributed and it can be commented on before, you
20 know, before the call so that the call would really
21 be mostly to discuss the more difficult areas and
22 make sure we have the language exactly the way we
23 want it, but that's what we hope for in an ideal
24 world. And we'll certainly do our best to achieve
25 that.

1 DR. TALASKA: As much as I'm loathe to nominate
2 another committee member, I would really love to
3 see if John help us with the asbestos section.

4 DR. WARD: John, are you still there?

5 DR. DEMENT: Yes, I am. And yes, I'll help you
6 with the asbestos section.

7 DR. WARD: Excellent.

8 DR. MIDDENDORF: Since we're talking a little bit
9 about process and timing, we also need to be able
10 to post whatever document it is you're going to be
11 discussing on the conference call; it has to be
12 posted several days ahead of time so that people
13 who want to comment on it and provide comments in
14 our meeting, have a chance to look at it so, you
15 know, that backs it up even a little bit more.

16 DR. WARD: Okay. Valerie.

17 MS. DABAS: I know you talked about summarizing but
18 I think, I know for me, one of the things that I do
19 want to see is that list because we talked about
20 biological plausibility, we also talked about rare
21 cancers and defining -- having definition for that
22 and then the IARC list. So I think once we get
23 those three things and the list, I think that would
24 be great if we can circulate that first, just in
25 case anybody had comments on it. I'm sure I will.

1 DR. WARD: Yeah, and that is the idea, to give out
2 the most -- you know, to distribute the most
3 important information first while we work on the
4 details.

5 So unless anyone else has a further comment or
6 concern, I think we're ready to close the meeting.
7 I appreciate all of -- yes, Steve.

8 DR. MARKOWITZ: This has nothing to do with cancer.
9 We had one of the persons during the public
10 comment, I think an air traffic controller, talk
11 about being eligible for the World Trade Center
12 health program for PTSD and it's a question whether
13 our -- the charter for this committee includes a
14 request from the administrator to advise on
15 eligibility, and whether it's something that we
16 should take up or are permitted to take up in the
17 near future.

18 DR. MIDDENDORF: I can address that the Zadroga Act
19 does require the administrator to consult on the
20 eligibility for Shanksville and for the Pentagon
21 but I'm not sure what it says -- Dori, do you know
22 what it says as far as eligibility is concerned?

23 DR. REISSMAN: I think the question that the
24 administrator can ask of the advisory committee is
25 if there should be any modifications to the

1 Pentagon and Shanksville eligibility criteria, but
2 I don't think it goes as far as to say in the act
3 stipulates, must present at the site, so that's a
4 dilemma there. And I think she might address that
5 directly.

6 MS. HOWELL: The administrator can ask for
7 assistance with the initial Pentagon and
8 Shanksville eligibility criteria, which is what you
9 all had the presentation on yesterday. He can
10 also, if he chooses, to open it up to modification
11 of eligibility criteria for the New York responders
12 and survivors. Then he would come to you all and
13 ask for consultation there but he would have to
14 initiate that process.

15 DR. WARD: So is there some mechanism by which the
16 committee can transmit that particular issue to
17 Dr. Howard? Can we just call attention to that
18 issue for him in a separate communication?

19 MS. HOWELL: I mean, the program administrator
20 takes notice of everything that happens during
21 these committee members -- I'm sorry, meetings, and
22 has been listening to all the public comments, so I
23 mean, I think he's aware of the issue already.

24 MS. FLYNN: Can I just --

25 DR. WARD: Yes, Kimberly.

1 MS. FLYNN: I spoke to him at some length, and he
2 applied for enrollment and was denied, and he
3 appealed the denial, and Dr. Howard denied the
4 appeal. And so, I mean, you know, denied the
5 appeal based on his geographic location.

6 Paul, I don't know what we can do but we really
7 have to do something. I mean, even if we have to
8 go back to the main authors of the bill. I mean,
9 it is not in the spirit of the bill to exclude
10 someone who truly fits the definition of a first
11 responder on the day of 9/11. I don't mean to put
12 you on the spot but I -- we have to make sure that
13 this individual gets the care that he needs and
14 deserves.

15 DR. MIDDENDORF: Yeah, I think it's something that
16 we'll just have to look into to see what -- if
17 anything can be done and if so what. I can't
18 promise anything more than that at this point.

19 DR. WARD: Yes.

20 MR. CASSIDY: Just on that note on the post
21 traumatic stress, I know from speaking to Sheila
22 Burnbaum that one of her concerns was literally
23 anybody could claim that they have post traumatic
24 stress, and they have it from watching the event on
25 TV, no matter where they were. And although I'm

1 not an expert, you are. Maybe you want to comment
2 on that. Is that crazy?

3 DR. NORTH: There are specific criteria in our
4 diagnostic manual that talk about how you can get
5 PTSD, what are the qualifying exposures and just
6 seeing the news on TV is not one of those.
7 But it's beginning to sound to me like this is
8 complex enough that it might be wise to want to
9 discuss it further, and I, with my expertise, I
10 think I can help us clarify some issues, but I
11 don't think we have time now.

12 DR. WARD: Thank you. Yes, Tom.

13 DR. ALDRICH: There's a small precedent related to
14 the New York State task force on -- worker
15 protection task force, where we included a group of
16 dispatchers.

17 MR. CASSIDY: Fire alarm dispatchers.

18 DR. ALDRICH: Fire alarm dispatchers who were not
19 at the World Trade Center site but were taking
20 calls all morning from people who were about to die
21 and had subsequent -- some of them had some
22 subsequent mental health issues.

23 DR. WARD: Thank you. Well, thank you all for your
24 full and active participation. I think we've had a
25 great and robust discussion, and I thank everyone

1 from the community who hung in there for the long
2 meeting. And John, thank you especially. I know
3 it's really hard to stay on these calls long
4 distance, and we really appreciate your input.

5 DR. DEMENT: Thanks a lot. I'm happy I could
6 contribute to some extent.

7 DR. MIDDENDORF: Let me just express appreciation
8 from the program for all of your thoughts and
9 inputs. We very much appreciate it. Thank you.

10 (Meeting adjourned at 3:43 p.m.)
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CERTIFICATE OF COURT REPORTER
STATE OF GEORGIA
COUNTY OF FULTON

I, Steven Ray Green, Certified Merit Master Court Reporter, do hereby certify that I reported the above and foregoing on the day of February 16, 2012; and it is a true and accurate transcript of the proceedings captioned herein.

I further certify that I am neither related to nor counsel to any of the parties herein, nor have any interest in the cause named herein.

WITNESS my hand and official seal this the 9th day of March, 2012.

STEVEN RAY GREEN, CCR, CVR-CM-M, PNSC
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